

CONTINUED FROM PART- 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341010723 A

(19) INDIA

(22) Date of filing of Application :17/02/2023

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(54) Title of the invention : A Method for Formulation of Carbopol Based Mucoadhesive Thermo Reversible Gel of Sucralfate

(51) International classification :A61K 090000, A61K 090600, A61K 092000, A61K 317000, A61K 473200
(86) International Application No :PCT//
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(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

Disclosed is a method for formulation of carbopol based mucoadhesive thermo reversible gel of sucralfate, the gel composition includes sucralfate ranging from 0.5-1.5% weight/volume (w/v) of the gel composition, Poloxomer 188 ranging from 4-20% w/v of the gel composition, Hydroxypropyl methylcellulose ranging from 5-15 milligrams(mg), Methyl Cellulose ranging from 5-15mg, Hydroxy Ethyl cellulose ranging from 5-15mg, and Distilled water 10-90ml.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341010784 A

(19) INDIA

(22) Date of filing of Application :17/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SYNTHETIC SUBSTITUTED SPIROCHROMANE COMPOUNDS AND DERIVATIVES PREPARATION METHOD AND APPLICATION THEREOF

(51) International classification :A61L 260000, A61P 430000, C07D 093400, C07K 164000, E04H 040000

(86) International Application No :PCT//
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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :

Exemplary embodiments of the present disclosure is directed towards method for the preparation and application of synthetic substituted spirochromane compounds and derivatives by reacting 2'-Hydroxy acetophenone derivatives of formula (2) with tetra-butyl 3-oxoazetidine-1-carboxylate to provide substituted tetra-butyl 4-oxospiro[chromane-2,1'-cyclobutane]-3'-carboxylate derivatives of formula (3); reacting tert-butyl 4-oxospiro[chromane-2,1'-cyclobutane]-3'-carboxylate derivatives in DCM and adding of trifluoroacetic acid to provide 2,2,2-trifluoroacetaldehyde compound with spiro[azetidine-3,2'-chroman]-4'-one derivatives of formula (4); reacting 2,2,2-trifluoroacetaldehyde compound with spiro[azetidine-3,2'-chroman]-4'-one derivatives and 44-(2-(3-ethyl-4-methyl-2-oxo-2,5-dihydro-1H-pyrrole-1-carboxamido)ethyl)benzenesulfonyl chloride in the presence of 1,4-dioxane and NaHCO₃ to provide 3-ethyl-4-methyl-2-oxo-N-(4-((4-oxospiro[chromane-2,4'-piperidin]-1'-yl)sulfonyl)phenethyl)-2,5-dihydro-1H-pyrrole-1-carboxamide derivatives of formula (I); and substituting formula (I), where R₁, R₂ and R₃ are each independently selected from the group consisting of hydrogen, halogen, alkyl or alkoxy group, X is C or N or O; Y is SO₂, W is aromatic or substituted heterocyclic group and n varies 0 to 5 for obtaining formula (IA), formula (IB), formula (IC), formula (ID) and formula (IE) acting as anti-cancer agents. FIG.1

No. of Pages : 52 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341010798 A

(19) INDIA

(22) Date of filing of Application :17/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ULTRASONIC MILLING MACHINE

(51) International classification :A61C 130000, B23C 010000, B23C 030000, B23C 090000, E01C 230880
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention describes an ultrasonic milling machine (300). The ultrasonic milling machine (300) may comprise a machining edge (302) for milling of a material. The ultrasonic milling machine may further comprise an operating tool (304) for operating the machining edge (302). The machining edge (302) may be formed by integration of at least three separate elements. Of the at least three elements, a first element may be a threading element (402), a second element may be an adapter element (404), and a third element may be a profile element (406). (Fig. 3)

No. of Pages : 17 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341010919 A

(19) INDIA

(22) Date of filing of Application :17/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN INDIVIDUAL PERCEPTION AND CONSUMER BEHAVIOR ON MUTUAL FUNDS

(51) International classification :G06F 151700, G06F 169500, G06Q 300200, G06Q 400000, H04L 671460
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT AN INDIVIDUAL PERCEPTION AND CONSUMER BEHAVIOR ON MUTUAL FUNDS Looking towards the Market circumstance, presently a day it is being such a lot of unpredictable and questionable. One can only with significant effort foresee the eventual fate of the monetary market. Thus it is the trepidation in to the personalities of the little financial backers about where and how to put away the cash for best and hazard free returns. A mutual fund is a way of pooling money by distributing units to investors and investing the proceeds in securities in accordance with the offer document's goals. As a result, for the typical person, a mutual fund is the greatest investment since it allows them to invest in a diversified, professionally managed basket of securities at a low cost. In recent years, the number of investors and investment sources has exploded. A venture is a financial resource bought with a thought that the resource will give pay from now on or will later be sold at a more exorbitant cost for a benefit. Financial service action is to plan constantly for their speculations to satisfy their monetary security, vocation, resource buy, youngsters' schooling, retirement and so forth. For this reason financial backers need to take choices with respect to the amount to contribute and where to contribute? For wonderful choice, financial backers need to know different venture choices. It is the job of monetary administrations establishments to help the financial backers for speculation, creation and development. This examination of this invention attempts to recognize the different sorts of shared reserve plans, most well-known shared store plans among financial backers. Likewise to know the financial backers mindfulness level towards shared reserves venture with their way of behaving.

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : DEEP LEARNING TECHNIQUE FOR EARLY DIAGNOSIS OF CORONARY ATHEROSCLEROTIC HEART DISEASE

(51) International classification :A61P 091000, G01N 336800, G06N 030400, G06N 030800, H04L 472400

(86) International Application No :PCT/
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract : Deep learning technique for early diagnosis of coronary atherosclerotic heart disease is the proposed invention. The invention aims at achieving early diagnosis and detection of atherosclerotic heart diseases. The algorithms of Deep Learning are used for the purpose of diagnosis of heart disease.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : EVALUATION OF CELLULAR PROPERTIES FOR NON-SMALL CELL LUNG CANCER TREATMENT BASED ON ADVANCED NANOPARTICLE DRUG DELIVERY SYSTEMS

(51) International classification :A61K 090000, A61K 332430, A61N 051000, A61P 350000, H04N 196100
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

Evaluation of cellular properties for non-small cell lung cancer treatment based on advanced nanoparticle drug delivery systems is the proposed invention. The invention focuses on analyzing and evaluating the cellular properties in the non-small cell lung cancer treatment. The advanced Nanoparticle based drug delivery system and its efficacy in treating lung cancer is analyzed.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : ELECTRO-OPTICAL SYSTEM FOR DETERMINING ATTITUDE INFORMATION OF SPACE VEHICLES AND A METHOD THEREOF

(51) International classification :C22C 210000, C22F 010400, G11B 070037, G11B 201000, H02J 070000

(86) International Application No :PCT//
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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT ELECTRO-OPTICAL SYSTEM FOR DETERMINING ATTITUDE INFORMATION OF SPACE VEHICLES AND A METHOD THEREOF
Embodiments of the present disclosure discloses an electro-optical system (104) for determining attitude of a miniature spacecraft (102). The electro-optical system includes an optical assembly (204), an image sensor (206) and an electronic circuitry (208). The image sensor receives an array of light encompassing stars in the sky that is directed by the optical assembly from within a field of view and generates at least one image frame of the stars based on a rolling shutter imaging mode. The electronic circuitry identifies the stars in the image frame based on a star pattern matching technique and determines a star vector for the stars in the image frame. Further, the electronic circuitry determines a 3-axis attitude in form of quaternion based on the star vector of the stars and transmits the 3-axis attitude in form of quaternion along with a time stamp to an attitude control system of the spacecraft. FIG. 1 (for publication)

No. of Pages : 30 No. of Claims : 12

(54) Title of the invention : PROCESS OPTIMIZATION OF A HALOPHILIC CHITINASE FOR THE PRODUCTION OF CHITTOOLIGOSACCHARIDES

<p>(51) International classification :A01C 010000, A01N 351000, A01N 431600, A01N 438800, C12N 094200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Manipal Academy of Higher Education Address of Applicant :Madhav Nagar, Manipal, 576104, Karnataka, India. Manipal -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)RAJESH KM Address of Applicant :Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576104, Karnataka, India. Manipal -----</p> <p>2)SUBBALAXMI S Address of Applicant :Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576104, Karnataka, India. Manipal -----</p> <p>3)RITU RAVAL Address of Applicant :Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576104, Karnataka, India. Manipal -----</p>
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(57) Abstract :
 The present invention relates to a process for the production of chitinolytic enzyme chitinase and its use for the production of chitin degradation products. The present invention provides an chitinolytic enzyme chitinase which has the ability to act on crystalline alpha chitin present in seafood and related marine animals.

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : SECURITY ENCRYPTION USING AES AND VISUAL CRYPTOGRAPHY

(51) International classification :C11D 012900, C11D 032000, H04L 090600, H04L 090800, H04W 720000

(86) International Application No :PCT//

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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

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Filing Date :NA

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(57) Abstract :

The Security encryption using AES and visual cryptography method comprises the steps, the image I to be encrypted using visual cryptography. And the array of the secret shares of the key constructed the original key or proposed shares. The novel share creation scheme is applied in which each pixel is divided by 2, and by using these values, generate two shares using the AES method. Repeat the above step till all the pixels in the scale image are decomposed wherein after a loop 2-3 times, then the prototype is to decompose the image. After decomposing the image, the data was transmitted automatically. The method embedded the secret data bits inside the bits of the pixels of the shares by using the aforementioned embedding procedure. Resulting that extracting the data, shares are stacked together and the receiver get the original data that is embedded.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341010986 A

(19) INDIA

(22) Date of filing of Application :17/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IR WIRELESS UNDERWATER COMMUNICATION SYSTEM

(51) International classification :B63C 112600, H04B 110000, H04B 130200, H04L 250300, H04R 014400
(86) International Application No :PCT//
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(57) Abstract :

An IR based underwater communication system that can be used for wireless communication of messages even through water. The system can prove to be a very cheap alternative to long heavy physical wires that run through seas, rivers and require large costs for laying those wires and their maintenance. Our system makes use of infrared transmitter (100), receiver (110), in order to achieve this system. Our system consists of two microcontroller (108) based circuits that have IR transmitter-receiver pairs as well as LCD displays (106) for displaying the messages. Each system has a keyboard connected to it in order to type in messages. We use two water barrels in order to demonstrate underwater communication using IR signals passing through those containers. The system also has an acknowledgement receipt message that is sent back from the receiving circuit to the transmitting circuit on message receipt. This allows for efficient communication between two circuits wirelessly.

No. of Pages : 14 No. of Claims : 5

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(21) Application No.202341010987 A

(19) INDIA

(22) Date of filing of Application :17/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A METHOD FOR INTELLIGENT DIETICIAN BASED ON ARTIFICIAL INTELLIGENCE

(51) International classification :G06N 050400, G10L 152200, G16H 203000, G16H 206000, G16H 406700
(86) International Application No :PCT//
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(87) International Publication No : NA
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(57) Abstract :

An intelligent dietician based on the artificial intelligence method allows the user to know about his/her actual diet information i.e. how many users had calories in their body on this basis system displays workout and food suggestions. This software package is strong enough to withstand regressive facilities for Handicapped People This software reduces the time span and cost for expert advice on diet. This site is exceptionally valuable to well-being cares and dieticians This product diminishes the time compass and cost for master advice for eating routine. In addition, the system will save time instead of going to the human expert. Also, the nutrition system is available all the time and can be used in any place. Our system integrates and captures nutrition and diet knowledge and information in an easy, clear, and understandable way for the users.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : THE USE OF HAND GESTURES TO MOVE THE CURSOR

(51) International classification :A61K 088100, G06F 030100, G06F 030230, G06F 030300, G06F 030481

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The use of hand gestures to move the cursor is used to control the mouse cursor and implement its function using a hand gesture by a real-time camera. we implemented mouse movement functions like mouse movement, left click, right-click, and no action was performed. This system is based on image comparison and gesture detection technology to do mouse cursor movement this system is evolved in this kind of manner that the user, new to the device needs to simply install the setups and download basics requirements.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : Design & Implementation of Automatic Fire Detection system in Railways

(51) International classification :A62C 031600, G06F 303400, G08B 170000, G08B 171130, G08B 171200

(86) International Application No :PCT//
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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

A common threat to both people and property is fire disaster. Real-time monitoring and programmable fire extinguishing systems are provided by automatic fire extinguishing strategies. The design of a reliable, safe, and affordable fire protection system is shown in this project. The technique aids in minimising fire damage when a fire arises. The controller is connected to the outputs of a temperature sensor and a fire sensor that make up the fire extinguishing system. Automatic sprinklers are considered one of the most important critical elements of a fire management programme, according to the majority of fire protection professionals. These technologies can compensate for shortcomings in risk management, building construction, and emergency response when properly designed, installed, and maintained. They also boost the overall degree of fire protection and offer greater flexibility in building design. One of the most significant tragedies to human life and Indian Railways property is the occurrence of fire in trains. As a result, railways are now very concerned about preventing train fires. A train fire behaves differently than a fire in another location in terms of how it starts, develops, and spreads. Fire aboard a moving train is more dangerous than one that is stationary because the fanning effect might swiftly spread the fire to neighboring coaches and passengers could flee the train in a panic, as has happened in the past.

No. of Pages : 5 No. of Claims : 2

(54) Title of the invention : OPERATIONAL MECHANISMS FOR NITROGEN CONTROL IN WASTE WATER TREATMENT PLANT

(51) International classification :C02F 012800, C02F 014400, C02F 030000, C02F 032000, C02F 033400
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

Nitrification is the biological conversion of the ammonium to nitrate nitrogen, and is a two-step process. In the first step, aerobic bacteria known as Nitrosomonas convert ammonium to nitrite. Another group of aerobic bacteria called Nitrobacter finish the conversion of nitrite to nitrate. The reactions are generally coupled and proceed rapidly to the nitrate form; therefore, nitrite levels at any given time are usually low. These bacteria known as 'nitrifiers' are strict aerobes, which means they must have free dissolved oxygen (O₂) to perform their work, and are active only under aerobic conditions. Complete nitrification requires approximately 4.6 pounds of oxygen for every pound of ammonium converted to nitrate. In comparison, CBOD can be consumed with only about 1.5 pounds of oxygen. The growth rate of nitrifiers is affected by the concentration of dissolved oxygen (DO), and at DO less than 0.5 mg/L the growth rate is minimal. Typical operational guidelines call for a minimum DO concentration of 1.0 mg/L at peak flow and an average daily DO concentration of 2.0 mg/L. For nitrification to proceed the oxygen should be well distributed throughout the aeration tank and its level should not be below 1.0 mg/L. Similar to humans, activated sludge organisms need nutrients to survive and reproduce. Nitrifying bacteria are no different, and need calcium in their diet. Luckily, there is usually enough calcium in the raw wastewater in the form of calcium carbonate (CaCO₃) to allow nitrifiers to survive nicely. Later in this manual, we will discuss the consequences of insufficient calcium (alkalinity) in the wastewater. As the nitrifiers use the ammonium as an energy source, they consume the calcium carbonate as a carbon source. The process of nitrification produces acids. This acid formation, along with the calcium carbonate reduction, can lower the pH of the MLSS and cause a decline in the growth rate of nitrifying bacteria. The optimum pH for Nitrosomonas and Nitrobacter organisms is between 7.5 and 8.5 and nitrification stops at pH levels at or below 6.0. Approximately 7.14 pounds of alkalinity (as CaCO₃) are consumed per pound of ammonia oxidized to nitrate. Temperature affects the growth rate of denitrifying organisms, with increased growth rate at higher temperatures. Denitrification can occur between 5 to 30°C (41°F to 86°F), and these rates increase with temperature and type of organic source present. The highest growth rate can be found when using methanol or acetic acid. A slightly lower rate using raw wastewater will occur, and the lowest growth rates are found when relying on endogenous carbon sources at low water temperatures. Denitrifying organisms are generally less sensitive to toxic chemicals than nitrifiers, and recover from toxic shock loads faster than nitrifiers.

No. of Pages : 3 No. of Claims : 1

(54) Title of the invention : The Design of a Low-cost IoT System for Automated Attendee Registration based on Wireless Electronic Sensors

(51) International classification :G05B 170200, G06T 073300, G08C 170200, H04L 651073, H04W 600000

(86) International Application No :PCT//

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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

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(57) Abstract :

The present invention relates to the development of a Web Platform for Wireless Sensor Management. [02] BACKGROUND OF THE INVENTION A very important part of man's life has always been technology. he has used his intelligence to create artifacts and tools to facilitate his work. Today, information and communication technologies (ICT) are in all areas of human endeavor, every day we interact with them, many times without realizing it. One of these is the so-called internet of things. The Internet of Things (IoT) is a technological area that refers to the design and implementation of embedded electronic devices connected to the Internet, such devices are embedded within all kinds of objects of daily use, allowing easy control or monitoring of their status, objects through the internet thanks to the electronic device inside them. In this context, there is an application subarea called smart cities, whose purpose is to apply IoT techniques to environments inside buildings. Applied research is a way to achieve solutions of a high scientific level in the problems of today's society; and it becomes extremely important for the peoples when the implementation allows them to provide them with collateral benefits. At present, specialized service institutions are obliged to improve their internal processes and user or customer service. This responsibility involves many actions and implementations in various areas, from administration, production to customer service, be these human, logistical, structural and technical improvements. The attendance record in an educational center allows for greater control of the student population, with which certain statistical data can be obtained in short and long-term decision-making. In addition to this, because the Salvadoran reality demands greater attention in the area of security every day, there is a need to have a mechanism that provides the registry of those who enter the institution, and also that is a clear warning to people outside the university that the level of monitoring is permanent and effective. The viable proposal in economic cost and rapid implementation, are radio frequency identification systems (RFID, for its acronym in English). This work proposed an inexpensive IoT electronic system that was placed at the entrance of the classroom, which registers each student who enters through the use of an RFID card, and also that the same system notifies in real time, via access to a site web, information of assistants to the administrators of the educational center. The results of this work are estimated to be replicated and of benefit not only for the institution studied, but for other industries such as supermarkets, markets, warehouses, importers, exporters, etc. A system for student registration with the ability to notify by internet, to different people, each class time segment does not exist in the local educational system. It should be noted that a computerized system for registering people with the characteristics proposed by this work is not available on the market (Ejje, 2017). [03] SUMMARY OF THE PRESENT INVENTION The IoT system designed for the automated registration of people entering a classroom meets the general objective set; and it becomes an economical technological tool that supports the logistical work of an institution where the registration of attendees is a large, periodic and very important task within the administrative work of the center. With this research, it has been possible to contribute new scientific knowledge, in such a way that a new way of making an efficient IoT system has been shown to solve problems of automation, monitoring and remote control of processes, with recent, low-cost technological tools, and efficient, such as the ESP8266 microcontroller and the Google platform, accessible in the local environment. The use of the aforementioned components allowed the design and construction of an embedded electronic circuit, which fulfills the function of allowing the scanning of an RFID card, reading its unique internal information, decoding it and sending it via Wi-Fi to the Internet. This circuit is also easy to configure and reproduce, to produce and implement it on a massive scale, for example, on a campus. [04] BRIEF DESCRIPTION OF THE DRAWINGS The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description refers to the annexed drawings wherein: Figure 1. Design of the architecture of the proposed system Figure 2. Design of the proposed embedded electronic circuit Figure 3. Implementation of the electronic reading circuit. Figure 4. Site captures for data visualization. DETAILED DESCRIPTION OF THE INVENTION Method In the development of this work, the experimentation method without hypothesis was used, which is a method used in cases where the purpose of the investigation is to provoke certain phenomena that do not usually occur in nature and whose knowledge may be interesting or important in the advancement of science and technology. Based on the above and with the proposed objective of designing and implementing an IoT system for the registration of classroom attendees, the work was carried out in stages, as described below. Architecture of an IoT system. The first step in implementing an IoT system is designing the application's block architecture. Based on the investigations on the state of the art, the following functional stages were established for the implementation of the system that would be proposed: 1) Sensors: reading of physical magnitudes and signal conversion. 2) Electronic processing: usually implemented with a microcontroller, which includes memory for firmware storage. 3) Connectivity: for connection to some type of wired or wireless network to access the Internet. 4) IoT Platform: computer service on the Internet where the information received from the electronic device will be stored and processed. 5) Visualization: services used for user access and visualization of the information produced by the sensors. Figure 1 shows the architecture designed for this proposed system. Selection of IoT system components Based on the above and the information collected from the state of the art, the following technological tools were selected for the implementation of each stage of the proposed IoT system: 1) Sensors: devices with RFID technology were used, specifically of the model MFRCS22, with a working frequency of 13.56 MHz. Each student in the test group was given an RFID card or tag, which was previously recorded with the corresponding card number. 2) Electronic processing: the ESP8266 microcontroller was used, together with the NodeMCU development board, for the implementation of all the electronic processing and firmware that will govern the processing of the signals produced. 3) Connectivity: The NodeMCU board, in addition to the ESP8266 microcontroller, already includes a WiFi transceiver capable of connecting to an available wireless network at the deployment site. 4) IoT Platform and presentation: looking for the best cost-benefit option, the services included in the Google suite were used to perform the functions of this block. IoT platform design The stage called IoT Platform of the designed system is based on Google services, specifically the Google App Script and Google Sheets applications were used. First, a code or script was designed that was stored and executed on Google's cloud servers. This is a program in Java programming language that is responsible for receiving, through HTTP protocol, the data from the scanned electronic circuit card, which in turn are sent to a spreadsheet in Google Drive, for storage, and display within a website designed in the Google Sites application. Results Embedded electronic circuit An electronic connection circuit was designed for the embedded system in charge of capturing the information from the scanned RFID card, which is based on the NodeMCU development platform and the ESP8266 microcontroller, which allows a minimalist but technically efficient design. Figure 2 shows the circuit designed for the stage of capturing, processing and sending data to the Internet. The electronic circuit was programmed using a firmware, using C programming language and based on the basic but effective algorithm of four functions: capture, processing, connection and sending to Google App Script, this every time a new RFID card is presented. Figure 3 shows the implemented circuit. IoT application and data visualization In this system block, which will handle the connection between the electronic sensor and the presentation stage, the services of Google App Script were used together with Google Sheets. In the visualization stage (Figure 4), the Google Sites tool was used to set up a website.

(54) Title of the invention : AI BASED DETECTION OF CARDIOVASCULAR PATHOLOGY OF A PATIENT THROUGH RETINAL SCAN

<p>(51) International classification :A61B 031000, A61B 031200, A61P 090000, A61P 091000, A61P 270200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Battula Tirumala Krishna Address of Applicant :Professor, Department of ECE, Jawaharlal Nehru Technological University-Kakinada (JNTUK), Kakinada, East Godavari District, Andhra Pradesh, India. Pin Code:533003 ----- 2)Ms.Supriya Dubey 3)Mrs.R.Shoba 4)Dr.R.Selvi 5)Mr.P.Sathish Kumar 6)Ms.S.Jayachitra 7)Mrs.C.Selvarathi 8)Dr.D.Gouse Peera 9)Mr.Addagatla Prashanth 10)Mr.A.Venugopal Rao Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Battula Tirumala Krishna Address of Applicant :Professor, Department of ECE, Jawaharlal Nehru Technological University-Kakinada (JNTUK), Kakinada, East Godavari District, Andhra Pradesh, India. Pin Code:533003 ----- 2)Ms.Supriya Dubey Address of Applicant :Assistant Professor, Department of CSE, SRM Institute of Science and Technology, Ghaziabad, Uttar Pradesh, India. Pin Code:201204 ----- 3)Mrs.R.Shoba Address of Applicant :Assistant Professor, Department of Information Technology, St. Joseph's College of Engineering, OMR, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu, India. Pin Code:600119 ----- 4)Dr.R.Selvi Address of Applicant :Associate Professor, Department of Computer Science & Engineering, SMK Fomra Institute of Technology, Kelambakkam, Chennai, Tamil Nadu, India. Pin Code:603103 ----- 5)Mr.P.Sathish Kumar Address of Applicant :Assistant Professor, Department of IT, Misrimal Navajee Munoth Jain Engineering College (MNMJEC), Chennai, Tamil Nadu, India. Pin Code:600097 ----- 6)Ms.S.Jayachitra Address of Applicant :Assistant Professor, Department of ECE, PSNA College of Engineering and Technology, Tamil Nadu, India. Pin Code:624622 ----- 7)Mrs.C.Selvarathi Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Karur, Tamil Nadu, India. Pin Code:639113 ----- 8)Dr.D.Gouse Peera Address of Applicant :Assistant Professor, Department of Civil Engineering, Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh, India. Pin Code:516126 ----- 9)Mr.Addagatla Prashanth Address of Applicant :Assistant Professor, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code:500043 ----- 10)Mr.A.Venugopal Rao Address of Applicant :Assistant Professor, Department of CSE, Sphoorthy Engineering College, Nadergul, Hyderabad, Telangana, India. Pin Code:501510 -----</p>
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(57) Abstract :
The present invention relates to a system and method for detecting cardiovascular pathology of a patient using an artificial intelligence (AI) based approach through analysing retinal scans. The system comprises a retinal imaging device that captures high-quality images of the patient's retina. The retinal images are then pre-processed to enhance their quality and standardize their features. The pre-processed images are then analysed by a machine learning model that has been trained on a large dataset of retinal images labelled as normal or abnormal. The model extracts specific features from the images that are indicative of cardiovascular pathology. The system uses a deep neural network for image analysis, which has the capability to learn and extract complex features from the images. The system further includes a user interface that displays the analysed retinal images and the model's prediction of the patient's cardiovascular pathology.

No. of Pages : 22 No. of Claims : 7

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(21) Application No.202341011071 A

(19) INDIA

(22) Date of filing of Application :18/02/2023

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(54) Title of the invention : Women Safety Device Using Artificial Intelligence

(51) International classification :G06N 030000, G06N 030200, G06N 050400, G06N 200000, G08B 150200
(86) International Application No :PCT//
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(87) International Publication No : NA
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(57) Abstract :

In our Country, even though it has super power and an economic development, but still there are many crimes against women. The atrocities against the women can be brought to an end with the help of our Invention.This device is a security system, specially 5 designed for women in distress. Method/Analysis: Using ARM controller for the hardware device is the most efficient and it consumes less power. We use radio frequency signal detector to detect hidden cameras.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : EFFECTIVE POWER SAVING SCHEME FOR WIRELESS SENSOR SYSTEMS ON QUANTUM MECHANICS

(51) International classification :G06N 100000, H04B 050000, H04L 250300, H04W 520200, H04W 841800

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 A Wireless Network consists of a web of networks where thousands of pairs are connected to each other wirelessly. A critical issue in the wireless sensor networks in the present scenario is the limited availability of energy within network nodes. Therefore, making good use of energy is necessary in modeling a sensor network. To propose a new model of wireless sensors networks using the concepts of atomic bonding on a three-dimensional plane using the percolation model, a kind of random graph in which edges are formed between the neighboring nodes. The concepts of Electromagnetics, Wave Duality and Energy model of an atom, Quantum Mechanics are linked with wireless networks by giving an approximate analysis of the various theories. A model is prepared in which the positioning of nodes of sensors are decided according to the analysis done with respect of atomic bonding concepts.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : IOT BASED MONITORING SYSTEM FOR PHYSICAL REHABILITATION OF STROKE PATIENT

(51) International classification :A61H 010000, A61H 010200, A61H 030000, A63B 240000, A63B 693600

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Stroke is a medical condition that can have devastating effects on a person's life. It can result in paralysis, difficulty speaking, and cognitive, sensory, and mobility deficits. Despite these challenges, however, physical rehabilitation is key to helping stroke patients regain as much of their independence as possible. Physical rehabilitation of stroke patients involves a variety of treatments and therapies aimed at restoring motor skills, strength, and range of motion. Physical therapists use exercises and activities to help patients build strength and stamina while increasing their range of motion. Occupational therapists may also help stroke patients with activities of daily living such as dressing and eating. Speech therapists can help stroke patients work on their speech and communication skills. The goal of physical rehabilitation is to help stroke patients regain their independence and function as well as possible. Rehabilitation can help stroke patients learn to walk again, regain the use of their hands, and improve their speech and communication skills. Physical rehabilitation also helps stroke patients manage their pain and improve their mobility.

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011075 A

(19) INDIA

(22) Date of filing of Application :18/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : UNDERWATER IMAGE ENHANCEMENT THROUGH THE MEDIUM TRANSMISSION GUIDED MULTI-COLOUR SPACE EMBEDDING

<p>(51) International classification :G03B 211400, G06T 050000, G11B 072403, H04L 671200, H04N 071800</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)M. Jaganath Address of Applicant :Assistant Professor, Artificial Intelligence and Data Science, M.Kumarasamy College of Engineering, Karur - 639113, Tamilnadu, India Karur ----- -----</p> <p>2)A. Sivajayaprakash 3)C. Kumar 4)M. R. Christhu Raj Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M. Jaganath Address of Applicant :Assistant Professor, Artificial Intelligence and Data Science, M.Kumarasamy College of Engineering, Karur - 639113, Tamilnadu, India Karur ----- 2)A. Sivajayaprakash Address of Applicant :Assistant Professor, Computer Science and Engineering K.Ramakrishnan College of Engineering, Samayapuram, Thiruchirappalli - 621112, Tamilnadu, India Thiruchirappalli ----- 3)C. Kumar Address of Applicant :Professor, Electrical and Electronics Engineering, M.Kumarasamy College of Engineering, Karur, Tamilnadu 639113, India Karur ----- 4)M. R. Christhu Raj Address of Applicant :Associate Professor, Information Technology, M.Kumarasamy College of Engineering, Karur - 639113, Tamilnadu, India Karur -----</p>
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(57) Abstract :

Underwater images suffer from color casts and low contrast due to wavelength and distance dependent attenuation and scattering. To solve these two degradation issues, we present an underwater image enhancement network via medium transmission-guided multi-color space embedding, called Ucolor. Concretely, we first propose a multi-color space encoder network, which enriches the diversity of feature representations by incorporating the characteristics of different color spaces into a unified structure As a result, our network can effectively improve the visual quality of underwater images by exploiting multiple color spaces embedding and the advantages of both physical model-based and learning-based methods. Extensive experiments demonstrate that our Ucolor achieves superior performance against state-of-the-art methods in terms of both visual quality and quantitative metrics.

No. of Pages : 9 No. of Claims : 3

(54) Title of the invention : A SMART SYSTEM FOR AIR QUALITY MONITORING AND DETECT FOREST FIRES USING THE INTERNET OF THINGS

<p>(51) International classification :A62C 030200, G01N 150600, G01N 330000, G06Q 501000, G08B 171200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Sayanti Chatterjee Address of Applicant :Associate Professor, Institute of Aeronautical Engineering, Dundigal, Dist: Medchal-Malkajigiri, Telangana, Hyderabad - 500043, India Hyderabad -----</p> <p>2)Mr. S Ramana Kumar Joga 3)Dr. Teki Vamsee Krishna 4)Dr. Srikanta Mohapatra 5)Mr. Satyabrata Sahoo 6)Mrs. TapaswiniBiswal 7)Mr. Prasun Chakraborty 8)Dr. Subhra Debdas 9)Mrs. Geetanjali Dei 10)Mr. Shobhit Nandkeolyar 11)Prem Bahadur Shah 12)Nitish Kumar Sah 13)Mr. Sthitprajna Mishra</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sayanti Chatterjee Address of Applicant :Associate Professor, Institute of Aeronautical Engineering, Dundigal, Dist: Medchal-Malkajigiri, Telangana, Hyderabad - 500043, India Hyderabad -----</p> <p>2)Mr. S Ramana Kumar Joga Address of Applicant :Assistant Professor, Department of EEE Dadi Institute of Engineering and Technology, National Highway 16, Anakapalle, Visakhapatnam - 531002, Andhra Pradesh, India Visakhapatnam -----</p> <p>3)Dr. Teki Vamsee Krishna Address of Applicant :Assistant Professor, Department of Electrical & Electronics Engineering, Sasi Institute of Technology & Engineering, Tadepalligudem, West Godavari District - 534101, Andhra Pradesh, India Godavari -----</p> <p>4)Dr. Srikanta Mohapatra Address of Applicant :Associate Professor, KIIT Deemed to be University, Campus-3 School of Electrical Engineering, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p> <p>5)Mr. Satyabrata Sahoo Address of Applicant :Assistant Professor KIIT Deemed to be University Campus-3 School of Electrical Engineering, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p> <p>6)Mrs. TapaswiniBiswal Address of Applicant :Assistant Professor, KIIT Deemed to be University, Campus-3 School of Electrical Engineering, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p> <p>7)Mr. Prasun Chakraborty Address of Applicant :Student, KIIT Deemed to be University, School of Computer Science, Patia, Bhubaneswar, District – Khurda - 751024, Odisha, India Khurda -----</p> <p>8)Dr. Subhra Debdas Address of Applicant :Associate Professor, KIIT Deemed to be University, Campus-3 School of Electrical Engineering, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p> <p>9)Mrs. Geetanjali Dei Address of Applicant :Assistant Professor, KIIT Deemed to be University, Campus-3 School of Electrical Engineering, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p> <p>10)Mr. Shobhit Nandkeolyar Address of Applicant :Student, Flat No. 5/05, B3 Block, Hi Tech Plaza, Madhipur, At Post - Kuha, Bhubaneswar, Khordha – 751002, Odisha, India Khordha -----</p> <p>11)Prem Bahadur Shah Address of Applicant :Student, KIIT Deemed to be University, School of Computer Science, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p> <p>12)Nitish Kumar Sah Address of Applicant :Student, KIIT Deemed to be University, School of Computer Science, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p> <p>13)Mr. Sthitprajna Mishra Address of Applicant :Student, KIIT Deemed to be University, Campus-3 School of Electrical Engineering, Patia, Bhubaneswar, Khurda - 751024, Odisha, India Khurda -----</p>
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(57) Abstract :
Forests are large areas gathering trees and other plants. Wildfires are one of major hazards of global warming; they destroy forests and speed up the deforestation phenomenon. Other wildfires are also caused by human errors in wilderness environments. Dry vegetation fuels a wildfire's rapid ignition and spread. It is difficult to extinguish flames even with the best efforts of forest firefighters. Smoke and air pollution from wildfires may harm human health and ruin property. Forest fires are difficult to detect at time or to anticipate it, because they spread rapidly. Early-warning systems that they are more accurate are really needed. These systems could be implemented with IoT, machine learning, or deep learning. In this paper, we focus on this direction of research and we examine literature proposals utilizing IoT and DL to detect wildfires and their spread via a comprehensive evaluation and comparison of existing works.

No. of Pages : 9 No. of Claims : 3

(54) Title of the invention : A SIMPLE, COMPACT AND EFFICIENT INDUCTION HEATING SOLUTION FOR MULTIPLE LOAD OF FERRO AND NON- FERROMAGNETIC MATERIAL VESSELS

(51) International classification :C25C 070600, G01N 335430, H05B 060600, H05B 061000, H05B 061200

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Induction heating is the most presiding technology due to its numerous advantages over conventional methods in heating applications. In the present invention, a resonant inverter circuit has been proposed which operates on muti loads (FM and N-FM). Previously most of the researchers have focused on heating FM type vessels. An effortless ON-OFF control is used to obtain control for both FM and N-FM loads and also offers linear power control. Frequency based control is implemented to increase the N-FM power control range. Further, the proposed inverter circuit gate pulses and modes of operation, the analysis of the inverter and its power control are discussed. Simulation and experimentation results are presented and operation of the proposed circuit is evaluated. The proposed inverter circuit for multiple load induction cooking system for vessels of different materials is shown in Fig.23. It has been simulated in OrCAD PSpice and experimentally verified with a prototype for 1624 W. It also offers better efficiency over entire range of power control.

No. of Pages : 30 No. of Claims : 5

(54) Title of the invention : INTERNET OF THINGS BASED DEEP LEARNING MODEL TO RECOGNIZE AND PREDICT KIDNEY DISEASE USING IMAGE PROCESSING

(51) International classification :A61P 131200, G06K 096200, G06N 030400, G06N 030800, G06T 070000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

Internet of Things based Deep Learning Model to Recognize and Predict Kidney Disease using Image Processing is the proposed invention. The proposed invention focuses on analyzing the exact condition of the chronic kidney disease. The invention will image the kidney using various medical imaging modalities and analyse them using Deep Learning and Internet of Things techniques along with image processing techniques.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : A NUTRACEUTICAL FORMULATION USING COCONUT SPROUTS (HAUSTORIUM)

(51) International classification :A01G 242500, A23L 331050, A61K 368890, A61K 450600, C12N 158200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

A NUTRACEUTICAL FORMULATION USING COCONUT SPROUTS (HAUSTORIUM) ABSTRACT The present invention relates to a phyto-medical formulation using coconut sprouts. In vivo studies using experimental rats had proved that *Cocos nucifera* L. haustorium plays a protective role against gastric ulcer. Formulated nutraceutical capsule with luteolin rich *Cocos nucifera* L. haustorium as an active pharmaceutical ingredient for the first time was found to contain varied bioactives with maximum drug release of 100.00 ± 0.27 per cent in 240 mins which signifies the novelty of our invention. Further, *Cocos nucifera* L. haustorium in its crude form can be used as a nutrient supplement in prevention and management of gastric ulcer with cost-effective approach as well can be recommended to the pharmaceutical industries for novel drug development and drug discovery. The present invention has emphasized the role of luteolin in the promotion of nutraceuticals from the coconut haustorium. Drug development and large-scale commercial production are the future prospects of this study.

No. of Pages : 43 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011107 A

(19) INDIA

(22) Date of filing of Application :18/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A NOVEL IOT-BASED MULTI HEAD FOOD EXTRUSION UTILITY SYSTEM

(51) International classification :F03D 070200, F16B 090000, F16M 111000, G01D 040000, G06Q 500600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention relates to a novel IoT-based multi head food extrusion utility system (100). The system (100) comprises a piece horizontally split clamshell barrel; a piece barrel liner manufactured from through hardened steel; a barrel water-cooled via cored one-piece barrel liner backing block; a barrel electrically heated via cartridge type heaters; a extruder barrel electroless nickel plated for corrosion resistance; a Co-rotating, self-wiping fully segmented agitator assemblies; a die assembly with single hole insert die; a two-tank liquid feed system (100) with inverter driven peristaltic pumps; a product cutter with inverter driven rigid blade knife; a free standing barrel cooling unit; a plurality of sensors are configured to detect abnormal condition of the multi head food extrusion utility system (100); a central processing unit is configured to control the function perform by the multi head food extrusion utility system (100) and plurality of sensors.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : INNOVATION OF THE METHOD FOR THE CONTROLLING DESERTIFICATION USING GEOSPATIAL MAPPING

(51) International classification :A01G 170000, A01G 241500, C09K 050000, C12N 090200, G06F 162900
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention provides a method for controlling desertification using geospatial mapping, which is a more effective and efficient way to monitor and prevent the spread of desertification. The method uses geospatial data, such as satellite imagery and ground-based observations, to create a map of the affected area, and then uses this information to develop targeted management strategies. The implementation of these strategies, such as planting of vegetation, construction of barriers to prevent soil erosion, and implementation of sustainable land management practices, can help to reduce the spread of desertification and protect the environment and local communities. It is recommended that farmers test their soil every two years. The results of soil tests might help determine how much fertilizer your crops require. The impact of human actions on the growth of arable land must be reduced. The Master Plan has to include and reinforce comprehensive land use planning and environmental regulations. Human intervention and modifications should also be carefully analyzed since humans have become the preeminent geomorphic agent in certain locations. In this regard, investigating the interplay between natural and human systems is essential for determining whether or not humans are really to blame for land degradation. We owe it to future generations to discover the truth about this and share it with them.

No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : METHOD FOR SYNTHESIZING COVALENT ORGANIC FRAMEWORKS AND THEIR APPLICATIONS

<p>(51) International classification :B01J 202200, C01G 430000, C07C 210000, C07D 872200, C08G 120800</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MR. SHANAVAZ H Address of Applicant :RESEARCH SCHOLOR, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>2)DR. YOGESH KUMAR K 3)DR. DEEPAK RAMESH KASAI 4)PROF. ARCHANA S 5)DR. BENAKA PRASAD S B 6)DR. RANJANA JAIN 7)MR. NIRANJAN KANNANUGO 8)DR.RAGHU M S 9)DR. PRASHANTH M K 10)DR. C. S. ANANDA KUMAR 11)MS. ANUSUYA A M Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MR. SHANAVAZ H Address of Applicant :RESEARCH SCHOLOR, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>2)DR. YOGESH KUMAR K Address of Applicant :ASSISTANT PROFESSOR, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>3)DR. DEEPAK RAMESH KASAI Address of Applicant :ASSISTANT PROFESSOR, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>4)PROF. ARCHANA S Address of Applicant :ASSISTANT PROFESSOR, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>5)DR. BENAKA PRASAD S B Address of Applicant :PROFESSOR, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>6)DR. RANJANA JAIN Address of Applicant :PROFESSOR, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>7)MR. NIRANJAN KANNANUGO Address of Applicant :STUDENT, FACULTY OF ENGINEERING & TECHNOLOGY, JAIN DEEMED-TO-BE UNIVERSITY, JAKKASANDRA (POST), KANAKAPURA (TALUK), RAMANAGARA (DIST), BANGALORE - 56 2112, KARNATAKA, INDIA. -----</p> <p>8)DR.RAGHU M S Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CHEMISTRY, NEW HORIZON COLLEGE OF ENGINEERING, OUTER RING ROAD, BANGALORE - 560103, KARNATAKA, INDIA. --</p> <p>9)DR. PRASHANTH M K Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY, BNM INSTITUTE OF TECHNOLOGY, 12TH MAIN ROAD, 27TH CROSS, BANASHANKARI STAGE II, BANASHANKARI, BENGALURU - 560070, KARNATAKA, INDIA. -----</p> <p>10)DR. C. S. ANANDA KUMAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF APPLIED SCIENCES (NANOTECHNOLOGY), VISVESVARAYA TECHNOLOGICAL UNIVERSITY, CENTER FOR POST GRADUATE STUDIES, MUDDENAHALLI, CHIKKABALLAPUR - 56 2101, KARNATAKA, INDIA. ---</p> <p>11)MS. ANUSUYA A M Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY, 14/5, HESARGHATTA MAIN RD, CHIKKASANDRA, MEI EMPLOYEES HOUSING COLONY, BENGALURU - 560057, KARNATAKA, INDIA. -----</p>
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(57) Abstract :

The present invention relates to covalent organic frameworks (COFs) and their methods of synthesis. COFs are a new class of porous materials that consist of extended structures with periodic arrangements of organic building blocks held together by covalent bonds. The COFs have a well-defined and controllable structure, high surface area, and tunable pore size and functionality, which make them useful in various applications such as gas storage and separation, catalysis, drug delivery, and sensing. The invention provides a method for synthesizing COFs using organic building blocks with functional groups that can undergo covalent bond formation under appropriate conditions. The method involves the use of solvents or reaction conditions that promote the formation of the desired covalent bonds between the building blocks to create a three-dimensional framework. The resulting COFs are characterized by their chemical and physical properties, such as porosity, surface area, and thermal stability.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : Change Management Practices and the Employee-Organizational Performance: The Mediating Role of Transformational Leadership

<p>(51) International classification :B64C 031800, B64C 274730, G06Q 100600, G10L 152200, G16H 402000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr A M Mahaboob Basha Address of Applicant :Patent Submission -----</p> <p>2)Dr. C.Gayathiri Devi</p> <p>3)Mr.Sriram Divi</p> <p>4)Mr.Venkat Ram Reddy Minsmpati</p> <p>5)Dr.Jainendra Kumar Patel</p> <p>6)Dr.Meena Sunil Sharma</p> <p>7)Mrs.V. Sailaja</p> <p>8)Mr.S. Chandra Sekhar</p> <p>9)Mr.R.Raghavendra Rao</p> <p>10)Mr.Ayush Kumar</p> <p>11)Mrs.D.Maithra</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr A M Mahaboob Basha Address of Applicant :Patent Submission -----</p> <p>2)Dr. C.Gayathiri Devi Address of Applicant :Assistant professor Department of Commerce College Name with address: PSG College of Arts and science, Civil Aerodrome Post, Coimbatore Pin: 641014 State: Tamilnadu District: coimbatore Country: India -----</p> <p>3)Mr.Sriram Divi Address of Applicant :Associate Professor Department of Public Policy and Administration College Name with address:Pandit Deendayal Energy University, Raisan, Gandhingar Gujarat Pin: 382421 State: Gujarat District: Gandhinagar Country: India -----</p> <p>4)Mr.Venkat Ram Reddy Minsmpati Address of Applicant :Associate Professor Department: Public Policy and Administration College Name with address:Pandit Deendayal Energy University, Raisan, Gandhingar Gujarat Pin: 382421 State: Gujarat District: Gandhingar Country: India -----</p> <p>5)Dr.Jainendra Kumar Patel Address of Applicant :Assistant professor Department: Law Government Ghanshyam Singh Gupt P.G.College Balod Chhattisgarh India State: Chhattisgarh Pin: 491226 Country: India -----</p> <p>6)Dr.Meena Sunil Sharma Address of Applicant :Professor, Universal Business School Karjat State: Maharashtra Pin:410201 Country: India -----</p> <p>7)Mrs.V. Sailaja Address of Applicant :Asst. Profess Department: MBA College Name with address: KBN College, Kothapet, I Town, Vijayawada Pin:520001 State:AP District: NTR Country: India -----</p> <p>8)Mr.S. Chandra Sekhar Address of Applicant :Assistant Professor Department: Management Studies College Name with address: Sree Vidyanikethan Institute of Management Sree Sainath Nagar, Rangampet, Tirupati. Pin Code: 517502 State: Andhra Pradesh District: Chittoor Country: India -----</p> <p>9)Mr.R.Raghavendra Rao Address of Applicant :ASSISTANT PROFESSOR Department: BUSINESS ADMINISTRATION College Name: INDIAN INSTITUTE OF MANAGEMENT AND COMMERCE Pin: 500004 State: TELANGANA District: HYDERABAD Country: INDIA -----</p> <p>10)Mr.Ayush Kumar Address of Applicant :Assistant Professor Department: Department of Commerce College/University: Mahatma Gandhi Kashi Vidyapith, Varanasi Pin: 221002 State: Uttar Pradesh District: Varanasi Country: India -----</p> <p>11)Mrs.D.Maithra Address of Applicant :Assistant Professor Department: Commerce with Information Technology College Name and address: Dr.SNS Rajalakshmi College of Arts & Science (Autonomous), 486, Thudiyalur, Saravanampatti Road, Chinnavedampatti post, Coimbatore. Pin: 641049 State: Tamilnadu Country: India -----</p>
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(57) Abstract :

Aim/Purpose:- The aim of the present invention relates to investigate the mediating role of transformational leadership in between the facilitating factors of change management and the organizational-employee performance in the organization. Findings:- The Mediating role of transformational leadership positively associated with the change management factors and the organizational-employee performance in the organization. The overcoming of employee resistances, the mediating role of transformational leadership is very much essential. Research Methodology/Approach/Design:- The present model developed based on secondary data sources. After completely studying the review of literature the model has been developed with new constructs. The model can be better understood by taking the advantage of primary data sources and SEM analysis using the descriptive and inferential statistics. Novelty:- The developed model is novel in the contemporary context with three different constructs. The construct1: The facilitating factors of change management and the construct2: The transformational leadership practices and the construct3: organizational-employee performance in the organization. Generalizability:- The outcome of the research can be generalized under any phenomenon where need arises to assess the organizational-employee performance based on the change management practices in the organization. Social Impact:- The developed model will give better results by using three different constructs. The present model can be better understood by taking the advantage of primary data sources which include: descriptive and inferential statistics using SPSS AMOS, SMART-PLS and R-Programming Language. The goodness of fit index values (GFI, AGFI, TLI, NFI, CFI) should be >.90. The RMSEA should be <.08 and chi-square value should ne (P<.000). Therefore, the model will give better results.

No. of Pages : 16 No. of Claims : 3

(54) Title of the invention : SYSTEM AND METHOD FOR PRECISION SPRAYING IN AGRICULTURAL FARMLANDS

(51) International classification :A01M 070000, A01M 090000, A01N 438280, B23P 152400, B64D 011800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 In the present disclosure, an automated spraying machine and corresponding method of spraying is disclosed. The machine comprises a spray cylinder, vertical shafts positioned on left and right sections of the spray cylinder, and horizontal shafts laterally expandable from the spray cylinder. The horizontal shafts are movably coupled with the vertical shafts in such a manner that heights of the horizontal shafts are adjustable, as required. Each of horizontal shafts comprises an array of sensors and one or more spray nozzles to spray one or more liquids stored in the spray cylinder. The machine comprises a controlling unit to receive and process sensor data related to crop from the array of sensors to determine at least one of crop quality, location of spraying, and presence of pests in crop, and guide the one or more spray nozzles to precisely dispense at least one liquid of the one or more liquids.

No. of Pages : 21 No. of Claims : 12

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND IOT BASED SMART HOUSE FOR ACTIVITY RECOGNITION

(51) International classification :A61B 050000, G06N 050000, G06N 050400, G06N 200000, G06N 201000

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 ABSTRACT ARTIFICIAL INTELLIGENCE AND IOT BASED SMART HOUSE FOR ACTIVITY RECOGNITION In the present aspect of the invention is a system (100) for artificial intelligence and IOT based smart house (101) for activity recognition, the system (100) is comprising of a plurality of cameras (102) fixed at different locations within the smart house (101) for recording activities; a plurality of Binary sensors (103) as an ultrasonic sensor for detection of movements within the house (101); a cloud storage (104) connected to a main server (105) of the house (101); and an alerting module (106) with signal transmitter for alerting authorized person through IoT based an output module (107). (FIG. 1 will be the reference figure)

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011188 A

(19) INDIA

(22) Date of filing of Application :18/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Energy Efficient Wireless Communication for IoT Enabled Greenhouses

<p>(51) International classification :A01G 091400, A01G 092400, H02J 501200, H04B 070413, H04W 520200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Harish S. Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, R. L. JALAPPA INSTITUTE OF TECHNOLOGY / Visvesvaraya Technological University, Kodigehalli, Doddaballapur, Bengaluru Rural, Karnataka, India, Pin - 561 203 -----</p> <p>2)Mrs. Lavanya Vaishnavi DA 3)Dr Anil Kumar C 4)Dr. Murthy S V N 5)Sunil Kumar B S Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Harish S. Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, R. L. JALAPPA INSTITUTE OF TECHNOLOGY / Visvesvaraya Technological University, Kodigehalli, Doddaballapur, Bengaluru Rural, Karnataka, India, Pin - 561 203 -----</p> <p>2)Mrs. Lavanya Vaishnavi DA Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, R. L. JALAPPA INSTITUTE OF TECHNOLOGY / Visvesvaraya Technological University, Kodigehalli, Doddaballapur, Bengaluru Rural, Karnataka, India, Pin - 561 203 -----</p> <p>3)Dr Anil Kumar C Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, R. L. JALAPPA INSTITUTE OF TECHNOLOGY / Visvesvaraya Technological University, Kodigehalli, Doddaballapur, Bengaluru Rural, Karnataka, India, Pin - 561 203 -----</p> <p>4)Dr. Murthy S V N Address of Applicant :Associate Professor, Department of Computer Science and Engineering, S J C Institute of Technology, #20, BB Road, Chickballapur-562101, Chickballapur, Karnataka, India, -----</p> <p>5)Sunil Kumar B S Address of Applicant :Assistant Professor, Department of Electronics and Communication, Nagarjuna College of Engineering and Technology / Visvesvaraya Technological University, Bengaluru Rural, Karnataka, India, -----</p>
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(57) Abstract :

Energy Efficient Wireless Communication for IoT Enabled Greenhouses Abstract: As greenhouse technology has progressed in recent years, it has created a firm foundation for the agriculture sector's information system, enabling rapid expansion. Its extension is a direct result of the construction that came before it. The Internet of Things enables straightforward remote access to the eco-friendly infrastructure constructed in this manner. The proposed work envisions, builds, and implements an IoT-based ecosystem dependent on sensors connected to a mobile device or PC with Internet access. In addition, a separate control unit is constructed to reduce power consumption, hence optimising the operation of the devices. By utilising data collection, it is possible to gather knowledge regarding plant development, soil moisture, energy consumption of all smart farm devices, etc. Before transferring this data to the Firebase cloud, it is categorised based on the applications. In order to monitor the internal environmental conditions of the greenhouse, we have put up a cloud-based data collection system. By connecting the dashboard to the cloud infrastructure, we can use the current data to analyse the system's power consumption. Whenever a disruption generates a data gap of up to one hour, it is smoothly supplied with previously collected data. The soil moisture level is maintained at 80 percent and the temperature in the greenhouse never exceeds 28 degrees Celsius. In order to enhance crop output per square metre, an artificial environment is built by constantly monitoring climatic variables, resulting in an ideal habitat.

No. of Pages : 9 No. of Claims : 8

(54) Title of the invention : Face detection and Notification using Machine Learning

(51) International classification :G06N 030400, G06N 030800, G06N 200000, G10L 152600, H04W 720800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT [500] Our Invention “Face detection and Notification using Machine Learning” is a this invention expects to foster an AI and profound learning-based ongoing system for distinguishing and perceiving human countenances in shut circuit TV (CCTV) pictures. The customary CCTV framework needs a human for every minute of every day observing, which is exorbitant and lacking. The programmed acknowledgment arrangement of countenances in CCTV pictures with least human mediation and decreased cost can help numerous associations, like policing, the suspects, missing endlessly individuals entering a confined region. Notwithstanding, picture based acknowledgment has many issues, like scaling, pivot, jumbled foundations, and variety in light power. This invention intends to foster a CCTV picture based human face acknowledgment framework involving various procedures for include extraction and face acknowledgment. The proposed framework incorporates picture obtaining from CCTV, picture preprocessing, face identification, restriction, extraction from the procured pictures, and acknowledgment. We utilize two element extraction calculations, head part investigation (PCA) and convolutional brain organization (CNN). We use and look at the presentation of the calculations K-closest neighbor (KNN), choice tree, arbitrary woods, and CNN. The acknowledgment is finished by applying these strategies to the dataset with more than 40K gained constant pictures at various settings like light level, turn, and scaling for reproduction and execution assessment. At long last, we perceived faces with a base registering time and a precision of over 90%.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : Horn Indicator and Ambulance, Police Indicator for Deaf.

(51) International classification :A61G 010200, A61G 010560, A61G 030000, A61G 030800, G09B 210000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT [500] Our Invention “Horn Indicator and Ambulance, Police Indicator for Deaf” is a Worldwide, deaf people are allowed to drive. However, as many people wonder, deaf people cannot hear audible cues such as a police siren, an ambulance needing the right of way, or even a honking horn. Deaf people say they simply pay attention to visual cues, such as the flashing lights, but honking horns do not have visual cues. For the safety of deaf people and to reduce the discrimination of society about deaf people driving, need of a device that will alert a deaf driver and also, indicate where the sound is coming is noticed. To build a desired device, the Arduino Uno board is to be used as a microcontroller to acquire the sound signal.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011275 A

(19) INDIA

(22) Date of filing of Application :18/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A MACHINE LEARNING BASED SYSTEM FOR CYBERATTACK DETECTION AND PREVENTION IN CLOUD-BASED, WIRELESS VIRTUAL ENVIRONMENTS

(51) International classification :C07K 161000, G06F 216000, G06N 030400, G06N 200000, H04L 671000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :

[025] The present invention discloses a machine learning based system for cyberattack detection and prevention in cloud-based, wireless virtual environments. In the present invention, one or more man-in-the-middle (MITM) detection tests initiated by a first node of a networked computing environment to determine whether communications between two other nodes of the same network have been intercepted or attempted to be intercepted by a third node; and it is determined by the first node that at least one of the tests indicates that the communications are likely to have been intercepted. Further, the first node is supplied with data defining the determinations; wherein at least one of the multiple types of MITM detection tests utilises at least one machine learning model trained by training data consisting of multiple samples that individually characterise network data traffic interception to a computer system received. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : System and Method to Improve the Performance of Molecular Docking using Machine Learning

(51) International classification :G06F 011600, G06N 030400, G06N 030800, G06N 200000, G16C 205000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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(57) Abstract :

Molecular Docking is an important mechanism for efficient Drug Discovery. Docking enables selection of new compounds, assessing ligand-target interaction patters even without prior knowledge of chemical composition and molecular structures of target moderators. With the advent of machine learning techniques, several machine learning algorithms such as Support Vector Machines, Convolutional Neural Networks, Gradient-Boosted Decision Trees, Radio Frequency Machine Learning Systems are adapted to represent the docking run. Proposed is a System and Method to Improve the performance of Molecular Docking using Machine Learning. Virtual Screening Computational Approach is devised to identify structures that are most likely to bind target protein. Receptor Structures and Compound Libraries are considered for analysing the 3D structure of target during structure preparation. Blind docking and pocket detection tools are employed to fix the optimal ligand binding site during binding site detection. Partial charges and hydrogens are added for conformer generation during the preparation of docking inputs. Docking parameters are fixed based on flexible or rigid receptor and ligand in the design of docking protocol. Hits are identified during post-docking filtering and validated for active compounds. Deep Neural Networks are trained for inference of library to predict virtual hits. Random sampling of predicted virtual hits and augmenting the training is carried out until the final iteration to result in high performance molecular docking.

No. of Pages : 16 No. of Claims : 3

(54) Title of the invention : AGENT BASED INTELLIGENT SINGLE BUYER ENERGY TRADING MODEL IN GRID-TIED MICROGRID

(51) International classification :G06Q 300600, G06Q 400400, H02J 030000, H02J 033200, H02J 033800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present discloser provides, an agent-based Microgrid (MG) power transaction via an aggregator system is proposed to facilitate the proposed day-head single buyer market auction in the grid-tied MG. In addition, a novel linear bidding algorithm is introduced for stakeholders (potential sellers and buyers) in the electricity market to decide their quote prices for day-head trading intervals. A grid-tied MG is simulated to validate the proposed approach using MATLAB/SIMULINK. The results on the test system are presented for illustrating the effectiveness of the Agent based intelligent single buyer energy trading model in Grid-tied Microgrid

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011290 A

(19) INDIA

(22) Date of filing of Application :19/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : EXPERIMENTAL INVESTIGATION ON STRENGTHENING OF KAOLINITE CLAY AND SUB-GRADE COHESIVE SOIL BY NANO MAGNESIUM OXIDE

(51) International classification :C01F 050200, C01F 050600, C04B 113400, C10L 011200, G01N 012800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

In this invention, an experimental investigation on strengthening of kaolinite clay and sub-grade cohesive soil by nano-magnesium oxide is presented. Limited research studies occurred in nano materials in geotechnical engineering field. Here, we investigated the impact of mixing the nanomaterials on the CBR, Atterberg limits, UCC values, and compaction characteristics of soft clay soil. The nanomaterials used are nanocrystalline MgO, nano Zinc Oxide, nano-TiO₂, and nano magnesium powder. The researcher analyzed four different nano materials which were synthesized in nano laboratory, nano crystalline MgO by soft chemistry solution chemical method and nano Zinc Oxide, nano magnesium and nano-TiO₂ by ball milling method. The procedures followed for the conduct of the compaction test, liquid limit test, UCC test, and CBR test on the clay soil are described in this investigation. The materials used for this experimental investigation include kaolinite clay, subgrade soil, nanocrystalline magnesium oxide, nano zinc oxide, nano titanium oxide and nano magnesium.

No. of Pages : 9 No. of Claims : 10

(54) Title of the invention : A DEEP LEARNING MARKET SEGMENTATION SYSTEM AND METHOD THEREOF

(51) International classification :B60R 210000, G06N 030400, G06N 030800, G06Q 400400, G06T 071740

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 The present invention relates to a deep learning market segmentation system comprises: a data processing module configured to clean, transform and organize a customer data to prepare it for analysis; a data normalization module configured to scale the customer data to ensure that variables with different units of measurement are comparable; a neural network architecture module configured to design and train deep learning model; a training and validation module configured to utilize a portion of the customer data to train the deep learning model, and validating the model on a separate set of data to evaluate its performance; a segmentation module configured to perform market segmentation using trained deep learning model; a segmentation visualization module configured to visualize the segments and characteristics to gain insights into customer behaviour and preferences; and a market strategy development module configured to utilize the information gained from the market segmentation module to develop targeted marketing strategies for each segment.

No. of Pages : 20 No. of Claims : 8

(54) Title of the invention : An herbal medicinal composition for therapeutic use and for anti-inflammatory activity

(51) International classification :A61K 361850, A61K 362800, A61P 110600, A61P 290000, A61P 350000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The proposed invention is an herbal medicinal composition for therapeutic use and anti-inflammatory activity. The composition comprises a combination of six natural plant extracts, including ginger, turmeric, boswellia, ashwagandha, guggul, and black pepper, that have been used for centuries in traditional medicine. The combination of these plant extracts creates a synergistic effect that enhances their therapeutic potential and efficacy for the treatment of inflammatory disorders, including rheumatoid arthritis, osteoarthritis, asthma, atherosclerosis, and cancer. The composition offers a safer and more natural alternative to conventional anti-inflammatory drugs, with fewer side effects and multiple health benefits. The proposed invention has potential as a cost-effective and versatile treatment option for individuals seeking natural and safe alternatives to conventional anti-inflammatory drugs.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED INFORMATION MANAGEMENT RESEARCHES IN THE FIELD OF DISASTER AND EMERGENCIES

(51) International classification	:G06K 096200, G06N 030800, G06N 200000, G06Q 502600, G08B 211000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(57) Abstract :

Artificial intelligence (AI) technologies and machine learning algorithms (ML) pertaining to disasters and public health emergencies were reviewed. Search strategies were developed and conducted for PubMed and Compendex. Articles were organized to identify novel approaches and breadth of potential AI applications. Articles that met inclusion criteria totaled 56 articles. Those identifying specific roles of AI and ML were grouped by topics highlighting utility of AI and ML in disaster and public health emergency contexts. Development and use of AI and ML have increased dramatically over the past few years. This review discusses and highlights potential contextual applications and limitations of AI and ML in disaster and public health emergency scenarios.

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : DESIGN OF VISUAL IMAGE BASED AUTISM SCREENING METHOD USING HAAR CLASSIFIERS AND AUTOML

(51) International classification :A61M 210000, B60Q 015000, G06K 096200, H04N 195900, H04N 198600

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 Research on early diagnosis and cognitive therapy of Autism Spectrum Disorders (ASD) is currently magnetizing researchers to develop novel yet non-invasive methods of diagnosing and providing appropriate therapy to overcome the difficulties faced by children affected by ASD and their families. The prevalence of ASD among Omani children is 15-fold higher than estimates. Oman currently faces concerns regarding early identification/intervention, and issues pertaining to secondary transition, independent living and employment. This suggests the need for design and development of a computational framework that would address the possibility of early detection of ASD in Omani children by exploring patterns of clinical data, brain images of children affected by ASD and mining from clinical databases of ASD patients in Oman.

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : AN EVACUATION SUIT

(51) International classification :A41D 130000, A41D 130120, B64D 100000, B64G 060000, G08B 070600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention discloses an evacuation suit (10) to evacuate the person from the underwater in the emergency situations. The evacuation suit comprises a jacket (29), an airbag (11) and a control system (19). The jacket configured to wear by the user to evacuate from the bottom to top surface of water. The air bag is configured to evacuate the wearer using the nitrogen gas through the reaction chamber (12). The reaction chamber comprises a sodium sulphur battery configured to ignite the ignition chamber by its heat to generate the nitrogen gas. The control system operates the reaction chamber to generate the nitrogen gas either by manual or battery controlled motor rotation for generating the heat inside the ignition chamber (27) by removing the wooden plate. The evacuation suit will help to evacuate the person from the underwater to top surface of water in the emergency conditions.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011305 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN INTEGRATED TAPIOCA HARVESTING AND CLEANING MACHINE

(51) International classification :A23N 120200, A47L 114000, B08B 030200, B08B 031000, B08B 130000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention discloses an integrated machine for tapioca harvesting and cleaning in the agricultural field. The machine (20) comprises a power source, seat assembly (40), tilling unit, uprooting unit, segregation unit and a cleaning unit. The tilling unit (22) is configured to loosen the soil for removing the tapioca from the land. The uprooting unit (38) is provided for holding the stem and removing it from the soil for depositing over the inclined chamber with the help of internal and external jaw, see saw and rotating column. The segregation unit (39) configured to separate the stem and roots by pulling the plant in between the blades. The cleaning unit (35) is configured to remove the impurities from the tapioca by spraying the water at high velocity. The machine will harvest and clean the tapioca from the field in an effective manner without affecting the plants.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011306 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN AUTOMATED PALMYRA TREE CLIMBING AND HARVESTING DEVICE

(51) International classification :A01D 462600, A01G 030800, A01M 310200, A63B 270000, B62D 570240
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention discloses an automated device (10) for Palmyra tree climbing and harvesting. The device comprises a frame, set of caterpillar wheels, rail track, circulating head and a control unit. The set is caterpillar wheels (19) and supporting wheel (14) configured to climb the tree using the motor rotation. The expandable clamp (18) with retractable spring (17) is providing the adjustment to the supporting wheel for climbing the tree and preventing the fall down of the device while climbing. The rail track (12) and circulating head (13) is configured to harvest the matured ice apple by using the cutter. The processor (26) configured to detect and capture the tree parts images using the sensor and camera (24). The image processing and Internet of Things configured to identify the exact ice apple from the Palmyra tree. The processor (26) operates the circulating head to move and cut the matured products using the cutter (23) at various angle and directions. The present invention will climb and harvest the matured ice apple from the Palmyra tree in an effective manner.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011307 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A POLY HERBAL NATURAL DIETARY COMPOSITION FOR PALLIATIVE CARE OF LUNG CANCER PATIENTS

(51) International classification :A23L 331050, A61K 332400, A61K 368100, A61K 368700, A61P 350000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Dr. LINGEGOWDA KADEHALLI BOREGOWDA

Address of Applicant :Ex-Director, Kidwai Memorial Institute of Oncology, Bengaluru, 560029, India -----

(57) Abstract :

The present invention provides a poly herbal natural dietary composition, comprising dried tulsi powder, turmeric powder, dried fig fruit, dried ginger, dried papaya fruit, dried fennel, dried grapes seeds powder, pepper powder and amla powder. The composition of present invention is administered in the form of milk shake for the palliative care of lung cancer patients.

No. of Pages : 11 No. of Claims : 2

(54) Title of the invention : Food Demand Forecasting Using Machine Learning

<p>(51) International classification :G06N 030800, G06N 200000, G06Q 100400, G06Q 300200, H04L 411600</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sri Eshwar College of Engineering Address of Applicant :Sri Eshwar College of Engineering, Kondampatti (Post), Vadasithur (Via), Kinathukadavu, Coimbatore – 641202, Tamil Nadu, India Coimbatore -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)S.Rajalakshmi Address of Applicant :Department of Artificial Intelligence and Data Science, Sri Eshwar College of Engineering, Kondampatti (Post), Vadasithur (Via), Kinathukadavu, Coimbatore – 641 202, Tamil Nadu Coimbatore -----</p> <p>2)S.Madumitha Address of Applicant :Department of Artificial Intelligence and Data Science, Sri Eshwar College of Engineering, Kondampatti (Post), Vadasithur (Via), Kinathukadavu, Coimbatore – 641 202, Tamil Nadu Coimbatore -----</p> <p>3)L.Sanjai Address of Applicant :Department of Artificial Intelligence and Data Science, Sri Eshwar College of Engineering, Kondampatti (Post), Vadasithur (Via), Kinathukadavu, Coimbatore – 641 202, Tamil Nadu Coimbatore -----</p> <p>4)M.Pagalavan Address of Applicant :Department of Artificial Intelligence and Data Science, Sri Eshwar College of Engineering, Kondampatti (Post), Vadasithur (Via), Kinathukadavu, Coimbatore – 641 202, Tamil Nadu Coimbatore -----</p> <p>5)S.Naveen Kumar Address of Applicant :Department of Artificial Intelligence and Data Science, Sri Eshwar College of Engineering, Kondampatti (Post), Vadasithur (Via), Kinathukadavu, Coimbatore – 641 202, Tamil Nadu Coimbatore -----</p>
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(57) Abstract :

Demand forecasting is a technique for estimation of probable demand for a product or services in the future based on the analysis of past demand for that product or service in the present market condition. Without proper demand forecasting it becomes impossible for any business to function. Improper demand forecasting would result in heavy loss. Different industry or company has different methods to predict the demands. In case of food industry, it is at most important that the demand needs to be on bulls’ eye since the food materials gets perished easily and has the fixed time frame to be used. So, the daily and weekly demand needs to be precise to avoid wastage which would otherwise increase the operating cost. Food delivery and restaurants benefit from forecasting food demand since it increases profits by reducing uncertainty in labor and food waste which are the two largest costs for restaurants. The data for this project was obtained from this competition. This project tries to forecast weekly food deliveries for one company using historical data. Several studies identifies current levels of waste as problematic, for example Garre et al describe food waste as a complex process driven by uncertainty that often results in negative economic and environmental effects. Machine learning was concluded to be an effective tool for reducing these types of uncertainties, and the usage of this might therefore lead to increasing profitability and reducing waste. In the study several machine learning methods were tested but the conclusion could be drawn that Random Forest in terms of accuracy generated the best result. The method was applied on a train and test set, separated by years in order to recognize trends, and predictions were based on the mean values for each sales region. With the given data, we have derived the below features to improve our model performance. Discount Amount: This defines the difference between the “base Price” and “checkout price”. Discount Percent: This defines the % discount offer to customer. Discount: This defines whether Discount is provided or not - 1 if there is Discount and 0 if there is no Discount. Compare Week Price: This defines the increase / decrease in price of a Meal for a particular center compared to the previous week. Compare Week Price: Price increased or decreased - 1 if the Price increased and 0 if the price decreased compared to the previous week. Quarter: Based on the given number of weeks, derived a new feature named as Quarter which defines the Quarter of the year. Year: Based on the given number of weeks, derived a new feature named as Year which defines the Year.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011410 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ARTIFICIAL HAND FOR PROSTHETIC APPLICATIONS

(51) International classification :A61F 025800, A61F 026800, A61F 027000, A61F 027200, A61F 027600

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to an artificial hand (100) for prosthetic applications, comprising a base (106), digits (101-105) coupled to the base (106), and a transmission unit (150) for moving a proximal segment (111), a middle segment (112) or a distal segment (113) of each digit (101-105). Each digit (101-105) comprises at least one tendon (120, 132) passing through the proximal segment (111) and attached to the middle segment (112), and one or more linkage mechanisms (133, 134, 135) for actuation of the segments (111-113). The transmission unit (150) comprises a leadscrew (138) threadedly coupled with first and second nuts (143, 144) through different threading arrangements. The first nut (143) and the second nut (144) are configured to provide tension to the tendon (120, 132). The artificial hand (100) includes movable hinged platforms (121, 122) for controlling movement of a thumb digit (115) and a little digit (114), respectively. [Fig. 1 is the representative figure]

No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : A METHOD FOR CONTENT-BASED IMAGE RETRIEVAL AND A SYSTEM THEREOF

(51) International classification :C12Q 016806, G01N 013600, G02B 213400, G06F 162200, G06F 165830
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

ABSTRACT A METHOD FOR CONTENT-BASED IMAGE RETRIEVAL AND A SYSTEM THEREOF The present disclosure envisages a method (100) for content-based image retrieval. The method (100) is employed in a convolution neural network (CNN) based image retrieval system (200), the method (100) includes the steps of storing (102), by a database (202), a plurality of images and its corresponding pool layer features and fully connected layer features; receiving (104), at least one query image; extracting (106), a plurality of pool layer features and fully connected layer features from the query image; selecting (108), the one of the features of the query image based on a predetermined selection-criteria; comparing (110), the features of the query image with the plurality of features of the plurality of stored images accordingly based on a comparison technique; computing (112), at least one similarity score; and retrieving (114), at least one store image from the database based on the similarity score.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011489 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A METHOD FOR DIRECT GENERATION OF BIOETHANOL FROM CHITIN SUBSTRATES

<p>(51) International classification :C12P 070600, C12P 071000, C21B 130000, F02D 414000, H04W 740800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Manipal Academy of Higher Education Address of Applicant :Madhav Nagar, Manipal, 576104, Karnataka, India. Manipal -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)RITU RAVAL Address of Applicant :Associate Professor, Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576104, Karnataka, India. Manipal -----</p> <p>2)KEYUR RAVAL Address of Applicant :Associate Professor, Department of Chemical Engineering, National Institute of Technology Karnataka Surathkal, Mangaluru, 575025, Karnataka, India. Mangaluru -----</p> <p>3)ATHEENA P.V. Address of Applicant :Department of Biotechnology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576104, Karnataka, India. Manipal -----</p> <p>4)S ARUN KUMAR Address of Applicant :Department of Chemical Engineering, National Institute of Technology Karnataka Surathkal, Mangaluru, 575025, Karnataka, India. Mangaluru -----</p>
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(57) Abstract :
The present disclosure pertains to a method for bioethanol production. In particular, the present disclosure provides an eco-friendly method for direct generation of bioethanol from chitin substrates using Candida sp. involving both aerobic and anaerobic fermentation.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : AN EVALUATION ON ECOLOGICAL CONSEQUENCES OF NANOTECHNOLOGY IN AGRICULTURE

(51) International classification :A23L 331600, A61K 086400, A61P 170000, C01B 131400, C01G 230000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 AN EVALUATION ON ECOLOGICAL CONSEQUENCES OF NANOTECHNOLOGY IN AGRICULTURE Abstract: In the past fifty years, food crop yields have increased considerably across the globe, particularly in less developed nations. Some disadvantaged nations continue to experience food shortages and famine, at least in part because they do not use science and technology in agriculture effectively or at all. Despite claims of food scarcity, this situation persists. Nanotechnology has the potential to revolutionise agriculture and the food production industry, according to recent scientific discoveries. This would increase food security and productivity, make society and the economy more equal, and reduce the adverse environmental and health effects of agriculture. Using factor analysis, the social, medical, financial, cultural, and biological consequences of nanotechnology were investigated. The effects of this disaster on society, health care, the economy, and culture have been categorised. These variables accounted for 58% of the variation in the environmental effects of nanotechnology on agriculture.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011522 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : TEMPERATURE DETECTION AND ALTERATION OF THE VEHICLE PARAMETERS TO IMPROVE THE LIFE AND PERFORMANCE

(51) International classification	:H01M 041310, H01M 045050, H01M 046200, H01T 134100, H04L 012000	(71)Name of Applicant : 1)Ola Electric Mobility Private Limited Address of Applicant :Regent Insignia, #414, 3rd Floor, 4th Block, 17th Main, 100 Feet Road, Koramangala, Bangalore, KA 560034, India Bangalore -----
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(87) International Publication No	: NA	(72)Name of Inventor :
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(57) Abstract :

A vehicle system to control temperature in a vehicle comprises a learning module that observes drive patterns experienced by the vehicle, detects variations in a rate of change of temperature across different components in the vehicle based on the drive patterns, and verifies whether the rate is higher than a threshold value. In response to a higher rate above the threshold value, the learning module predicts information regarding optimized motor current, rotations per minute (RPM), and torque to run the vehicle at a higher efficiency zone of the drive pattern. The learning module transmits the information to a Motor Control Unit (MCU) module, a Battery Management System (BMS) module, and a Power Distribution Unit (PDU) module. The learning module controls parameters associated with the MCU module, the BMS module, and the PDU module to control the rate of change of temperature in different components of the vehicle.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR STABILIZING A VEHICLE

(51) International classification :A62B 990000, B60L 152000, B60L 582000, B60T 081750, B60T 081755

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a vehicle control system. A plurality of vehicle stability control elements determine a change in orientation of at least one wheel of the vehicle relative to ground. The change in orientation comprises lifting of at least one wheel from the ground. An inertial measurement unit measure the change in the orientation of the vehicle to determine a lifted position of the vehicle and generate a feedback signal. A vehicle control unit control braking force in the vehicle based on the feedback signal, measure a torque required to hold the vehicle at the lifted position, and hold the vehicle in the lifted position based on the measured torque. Refer to figure.1

No. of Pages : 18 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011559 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : RUTIN AQUASOMES FORMULATION TO ENHANCE SOLUBILITY AND BIOAVAILABILITY

(51) International classification :A61K 090800, A61K 317048, A61K 381700, G03F 074000, H01L 210270
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Rutin Aquasomes formulation To Enhance Solubility And Bioavailability Nano drug delivery system was developed for drug rutin with a view to improve the solubility and oral bioavailability of poorly aqueous soluble drugs. Ceramic core based aquasomes were prepared using coprecipitation technique by reflux condition. Subsequently, sugar loading and drug loading were done using adsorption and quantification of the sugar and drug loading were done based on the spectrophotometric methods developed earlier. Optimization of some important variables such as addition of non-solvent, core to coat ration and drug concentration were done. Different nano formulations have been prepared to improve the effect of rutin on various cardiovascular diseases especially atherosclerosis. The optimized drug formulation was selected for the investigation of dissolution profile. Structural characterization was done using FTIR spectroscopy, SEM (morphology and size) and zeta potential.

No. of Pages : 20 No. of Claims : 8

(54) Title of the invention : SYSTEMATIC APPROACH TO STUDY THE SILVER NANOPARTICLES IN CANCER DIAGNOSIS AND TREATMENT

(51) International classification :A61P 350000, C12Q 016886, G01N 335740, G01N 336800, G06Q 100800
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

SYSTEMATIC APPROACH TO STUDY THE SILVER NANOPARTICLES IN CANCER DIAGNOSIS AND TREATMENT The nanometer silver composition of lung cancer and prostate cancer control consists of nanometer silver and the shaping auxiliary material of other injections, it is possible to be used as an antitumor drug in the prevention of lung cancer and the control of prostate cancer. Route of administration administration: intravenously, flesh are interior, subcutaneous, in skin, intraperitoneal. The silver compound is formed by anion exchange between a soluble silver salt and a sodium salt. Decomposition obtained from thermogravimetric measurement when the composite silver nanoparticles having an organic coating layer formed around a silver nucleus composed of a collection of silver atoms are thermally analyzed. Treating cancer in a patient, comprising administering to the patient an effective amount of a pharmaceutical composition comprising nanoparticles that comprise rapamycin and a carrier protein. The nanoparticles are attached to a cancer drug, a targeted cancer drug, a humanized monoclonal antibody, a chimeric monoclonal antibody, or a fully human antibody.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011571 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A MACHINE LEARNING BASED SYSTEM WITH DIGITAL MEDIA TECHNOLOGIES TO RESOLVING THE VARIOUS OBSTRUCTIONS IN ONLINE TEACHING

(51) International classification :B25J 091600, G06N 030400, G06N 030800, G06N 200000, G06Q 502000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

[025] The present invention discloses a machine learning based system with digital Media Technologies to resolving the various obstructions in online teaching. In the present invention, a means for collecting information about teachers from multiple schools and figuring out if a teacher is acquainted with a pupil or if they share pals; further, letting the student pick their own teacher once they've taken a personality test to identify their preferred method of learning. Further, a user computer with a processor, display, user input, and computer-readable media, wherein the user computer is programmed to display user interface information received over a network connection, wherein the user computer is programmed to display video data of a procedure and display information on tools used in the video, wherein the user computer is operable to transmit a request by a user for a one-on-one communication between the user and a vendor of a tool used in the video. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : AI enabled energy management control techniques for fuel cell based Electric vehicle

(51) International classification :H01M 080438, H01M 080453, H01M 080474, H01M 080499, H04N 196100

(86) International Application No :PCT/
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention proposes a novel system and method for energy management control in fuel cell-based electric vehicles (FCEVs) using artificial intelligence (AI) algorithms. The system employs various sensors and data acquisition systems to gather information on the vehicle's operating conditions and energy consumption patterns, which are then processed by an AI-based control system using machine learning algorithms to predict future energy demands and optimize the operation of the fuel cell system. The system adjusts various parameters such as fuel cell output, battery charge/discharge rate, and regenerative braking to ensure optimal performance and energy efficiency. It also considers external factors such as weather conditions, traffic congestion, and road gradient to make real-time adjustments and optimize energy consumption. The invention can be applied to various types of FCEVs and can help improve efficiency, performance, reduce operating costs, and increase range on a single charge. Overall, the invention proposes a novel approach to energy management control techniques for FCEVs using AI to optimize energy consumption and production.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011576 A

(19) INDIA

(22) Date of filing of Application :20/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AI BASED NANOTECHNOLOGY TO TREAT BLOOD CANCER NODES

(51) International classification :A61M 013400, A61M 013600, A61P 311200, A61P 350000, A61P 350200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

A METHOD OF PIMELIE KELONE COMPOUNDS ON THE CONSTITUENT FOR THE PREPARATION FOR THE TREATMENT OF DIABETES OF UTILIZING A method of pimelie kelone compounds on the constituent for the preparation and treatment of diabetes. The method includes treatment of diabetic disorder by organic solvent that is selected from the group that has ester class, alcohols, alkanes or alkyl halide are formed, preparation for the treatment of diabetes, comprise cast compound or its pharmaceutically acceptable salt, its metabolite, its solvate or its precursor medicine to main body of effective dose in a treatment, and this compound has lower array structure, cinnamomum kanahirai hay pimelie kelone compounds that are used to slow down physiological fatigue, reactor is cooled to room temperature after the reaction was completed, ethyl acetate diluting reaction object is added, uses saturated sodium-chloride water solution and treatment of experimenter's focal segmental glomerulosclerosis (FSGS), comprise pimelie kelone compounds from effective dose to this experimenter or its pharmaceutically acceptable salt, metabolite, solvate or the prodrug.

No. of Pages : 13 No. of Claims : 1

(54) Title of the invention : SAFETY RISK ASSESSMENT FOR TUNNEL CONSTRUCTION APPLICATION OF AHP TO TUNNEL PROJECT

(51) International classification :E21D 090600, E21D 111000, E21D 114000, G06Q 100600, G06T 170000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

SAFETY RISK ASSESSMENT FOR TUNNEL CONSTRUCTION: APPLICATION OF AHP TO TUNNEL PROJECT ABSTRACT Apparently, construction industry has one of the highest work accident rates in the world. While construction industry has many sub branches, each and every one of them has its own distinctive. These varieties of projects bring special types of hazards and hazard sources together. Tunnel construction is a very specific area to work on and creating a safe working environment especially for the underground projects is a challenging task. While confined space works carry different kind of risks, management should be more attractive to create risk mitigation strategies when it is compared with other construction projects. As long as every project has a due date, operations must be completed within a proper time and source management. Risks and hazard sources must be determined. But even the risks and hazard sources are determined and classified; the main objective should be the prioritization of those risks, so decision makers can give required attention for every project risk. While there are limited sources, it is essential to spend them systematically. This study aims to make a systematic approach to risk prioritization for tunnel projects. Tunnel construction projects are complex environments and that is why Analytic Hierarchy Process (AHP) used for the decision making and prioritization of the risks. In addition to that, interviews have been fulfilled with the tunnel construction experts and derived risk scores for especially on Project tunnel construction risks. In the end the risk prioritization list is created. To sum up, scrutinizing and combining AHP with expert's comments before and during the site executions of tunnel projects can help to create a safe working environment, give enough attention for different risks and using the project sources properly.

No. of Pages : 24 No. of Claims : 7

(54) Title of the invention : A Proposed Meta-Reality Immersive Development Pipeline Generative AI Models and Extended Reality (XR) Content for the Metaverse

(51) International classification :G06F 030100, G06N 030000, G06N 030800, G06T 152000, G06T 190000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT A PROPOSED META-REALITY IMMERSIVE DEVELOPMENT PIPELINE: GENERATIVE AI MODELS AND EXTENDED REALITY (XR) CONTENT FOR THE METAVERSE The realization of an interoperable and scalable virtual platform, currently known as the “metaverse,” is inevitable, but many technological challenges need to be overcome first. With the metaverse still in a nascent phase, research currently indicates that building a new 3D social environment capable of interoperable avatars and digital transactions will represent most of the initial investment in time and capital. The return on investment, however, is worth the financial risk for firms like Meta, Google, and Apple. While the current virtual space of the metaverse is worth \$6.30 billion, that is expected to grow to \$84.09 billion by the end of 2028. But the creation of an entire alternate virtual universe of 3D avatars, objects, and otherworldly cityscapes calls for a new development pipeline and workflow. Existing 3D modeling and digital twin processes, already well-established in industry and gaming, will be ported to support the need to architect and furnish this new digital world. The current development pipeline, however, is cumbersome, expensive and limited in output capacity. possible. New processes and workflows, such as those proposed here, will revolutionize content creation and pave the way for Web 3.0, the metaverse and a truly 3D social environment.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011583 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Saving Energy Consumption in WSN Using Clustering Techniques (SECCT)

(51) International classification :G06F 164800, H04N 071800, H04W 241000, H04W 520200, H04W 841800
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

Clustering method is an effective technique for saving energy in WSNs. To improve network lifespan clustering approaches, implement various parameters for selection of CH. An effective clustering algorithm depends upon the number of factors such as number of CHs, uniform cluster size, CHs distribution, energy of the CHs etc. The concept introduced is optimal number of nodes for CH selection based on heuristic approach and node dormancy mechanism for minimization of total energy consumption. It has been evidently verified through the simulations and results that SECCT guarantees a higher packet delivery ratio, better energy performance, low end to end latency. Mathematical analysis and simulations show the performance of the clustering method. Simulation results indicate that the suggested methodology is beneficial in terms of required energy efficiencies in WSNs.

No. of Pages : 4 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011596 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A novel nanocomposite double slope U shape stepped basin solar still

(51) International classification :C02F 011400, F21S 090300, H01F 010570, H02J 073500, H03K 171600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The desalination technologies are used in the green synthesis of low-cost for the attractive dyeing process. It is a main green material with various effluents released from energy storage materials. The present invention explored the sides with a potential improvement of the double slope inclined U-shape stepped basin solar still (DUSS) using Nano Phase change Materials (NPCM). It is designed with a U-shape stepped basin area (USB) coated by NPCM subjected to thermodynamic scrutiny for change in entropy utilizing Gibb's free energy equation. Silver colour steel balls (SB) for rapid convection of thermal energy absorbed from transmitted solar radiation to the NPCM attractive an inside impact of DUSS significantly. The NPCM leading to higher heat transfer with a potential of DUSS has been predicted with which resulted in the enhancement of average water temperature is 28%. USB coated of NPCM with incorporated SB performance of DUSS is 17.85% to compare the conventional double U-shape stepped basin solar still (CDUSS). The proposed novel design with sunshine hours augmented the temperature of water yield by the DUSS is 13.12 L/m²day and daily average efficiency is 38.73%. The distilled water was suitable for drinking water quality analysis. The theoretical and experimental results are obtained by the DUSS incorporated NPCM-SB for a synergistic result is increased thermal conductivity.

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011597 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Unified Platform for AI and Big Data Analytics

(51) International classification :A61B 050000, A61K 382800, A61M 051680, G16H 201700, H04L 430800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 UNIFIED PLATFORM FOR AI AND BIG DATA ANALYTICS ABSTRACT This invention describes an integrated platform for machine learning and big data analysis. The integrated platform is configured in a way that builds a large distributed data processing environment in the computing environment that makes up the NVIDIA AI platform. In addition, this paper describes the background of this idea selection and the use of the software to build the unified platform. The technical details are shown in terms of how to create the proposed platform. In the analysis section, the methodology is provided and also the steps are explained as to how to use this integration platform. Finally, the expected effects are elaborated in the conclusion section.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011598 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An Artificial Intelligence Based Virtual Assistant Using Conversational Agents

(51) International classification :G06N 030000, G06N 050000, G06N 050400, G06N 202000, G10L 152200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
ABSTRACT AN ARTIFICIAL INTELLIGENCE BASED VIRTUAL ASSISTANT USING CONVERSATIONAL AGENTS
 Conversational agents are natural language interaction interfaces designed to simulate human conversations using Artificial Intelligence (AI). This paper explores current applications of these systems and raises the lack of their availability in education. To address this problem, we provide the design of a conversational agent system, which is efficient and time-saving in assisting student/college seeking information about curriculum, scheduling, teachers, 10 classroom location at any time 24/7/365. To verify and validate the design and implementation of our proposed model, a pilot project has been set up involving three leading academic institutions. This platform is designed and developed to help universities provide continuous and instant assistance to their student, staff, and faculty 15 communities.

No. of Pages : 19 No. of Claims : 7

(54) Title of the invention : Sensor stimulated touch responsive frame for non-touch screen laptops

(51) International classification :G06F 030100, G06F 030410, G06F 030440, G06F 031600, G06T 050000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

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(57) Abstract :

ABSTRACT An affordable cost touch responsive frame for non-touch screen laptops. With a compact and user-friendly design. This determines the touch point over the screen using the sensor array paired up with the microprocessor. The hardware shares a coordination code with the dedicated python backend desktop app. The app decodes the coordination code and fetch the coordination axes X-axis, Y-axis and fix the cursor to the particular location and perform the respective task based on the further actions of the user over the point.

No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : A Portable and Compatible Air Pollution Detector and Purifier with CaO Granules Based Filter

(51) International classification :B29B 076000, B29B 090600, B29B 091200, B29C 443400, C08J 091400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 India is 4.7 times above the recommended limit given by the WHO 24 hrs air quality guideline value. On an average the Indian pollution spends 80% of their time in an indoor in environment. To solve this problem we have come up with an indoor air purifier which is portable, small, durable and efficient. The main component of indoor pollution is CO and carbon related components hence our purifier purifies CO2, CO, carbon related components and even SO2. Our objectives are 1)To purify the polluted air 2)To provide an efficient and easy to handle air purifier 3)To sense air quality and display the pollution before and after entering the purifier. To understand the problem in depth we have done survey from different domains 1)Medical domain We have done a survey by consulting medical experts namely surgical oncologist and anaesthetist from a well known hospital at Belgaum. 2)On site labours We have done survey by approaching carpenters, construction labours and industry workers.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011645 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : UNINTERRUPTED POWER BACK-UP FOR COMPUTER HARDWARE DEVICES

(51) International classification :G06F 030488, G06F 111400, G16Z 990000, H02J 090600, H04W 761500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A device 100 for supplying uninterrupted low-power supply to low-power external equipments may include a housing 120 configured with a battery pack 102, a printed circuit board 104 configured with a plurality of circuits, a plurality of input and outputs points 106, and a plurality of indicating lights 108 configured to indicate one or more operation of the device. The battery pack 102 comprising one or more rechargeable cells to supply power to the low-power external equipments in case of coupled external power supply fails. The plurality of indicating lights 108 are LED indicators and the low-power external equipments are one or a combination of computer hardware equipments like a modem/router.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : DETECTING UNAUTHORIZED OR MALFUNCTIONING PERIPHERAL COMPONENT ON AN ELECTRIC TWO-WHEELER

(51) International classification :B41J 022100, B60H 010000, G01B 071400, H01L 294230, H01M 104200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention describes a system and method to detect unauthorized or malfunctioning peripheral component (101) on an electric two-wheeler. The system comprises of the following. A peripheral component (101) receives input from a user. The peripheral component (101) extracts an input current from a power source (102) based on the corresponding received input. A vehicle control unit (VCU) (103) receives a value of the extracted input current from the peripheral component (101). The VCU (103) compares the received value of the extracted input current with a predefined current value for the peripheral component (101). The VCU (103) generates an alert when the received value of the extracted input current is lower or higher than the predefined current value for the peripheral component (101). An output device (104) receives the generated alert from the VCU (103) to notify the user. Figure 1

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : MULTI-SENSOR MEDICAL IMAGE FUSION USING COMPUTATIONAL HARMONIC ANALYSIS WITH WAVE ATOMS

(51) International classification :A61B 060000, A61B 060300, A61B 080000, A61B 080800, G06T 055000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT MULTI-SENSOR MEDICAL IMAGE FUSION USING COMPUTATIONAL HARMONIC ANALYSIS WITH WAVE ATOMS. The present invention discusses a multi-sensor medical image fusion using computational harmonic analysis with wave atoms where the process of image fusion includes three stages/steps viz., medical image decomposition where the source images (CT & MR) are decomposed using average filter into two scale representations to obtain energy layer and structural layer. Then wave atom coefficient is generates using filter by constructing weight maps via generating saliency map and finally fused image is reconstructed by wave Atom coefficients are applied directly to the Energy Layer (EL) and Structural Layer (SL) and inverse wave atom transformation will be applied to reconstruct the spatial information of CT and MRI images to obtain a single cohesive image of superior quality for assessment which provides better quality than individual input images. The source images are analyzed at same dimensions but may differ in intensities. Fig 1

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011759 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PERSONALIZING TORQUE PROFILES OF AN ELECTRIC VEHICLE

(51) International classification :B60H 010000, B60L 152000, B60L 531600, B60L 536800, B62K 110400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT PERSONALIZING TORQUE PROFILES OF AN ELECTRIC VEHICLE Example approaches for personalizing torque profiles of an electric vehicle based on trip parameters, are described. In an example, trip parameters indicates user preferences regarding destination location to which the user wants to reach with only certain amount of charging of a battery consumed. Therefore, while commuting on roads the electric vehicle personalizes utilization of charging of a battery based on user requirement or trip parameters. Based on trip parameters, torque profiles, such as drive torque profile and regenerative torque profile, is selected to achieve the target set by the user.

No. of Pages : 33 No. of Claims : 15

(54) Title of the invention : IMPLEMENTATION OF CLASSIFICATION MODELS TO IMPROVE THE ELECTRIC CHARGING SYSTEMS TO COPE UP WITH THEIR EXPONENTIAL GROWTH

<p>(51) International classification :B60L 531400, G03G 150200, H02J 070000, H02J 071400, H02J 505000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Soumya Mishra Address of Applicant :Associate Professor, Department of EEE, MVJ College of Engineering, Bangalore, 560067 Bangalore ----- 2)Murari Lal Azad 3)R. KIRANMAYI 4)Pratiksha Gupta 5)S Ambigaipriya 6)Dr. M V Ramana Rao 7)Dr. Aarti Sharma 8)Thirumurugan R 9)MATTHEW.K 10)Mohd Asif Shah 11)Dr. Vijay Kumar Salvia 12)A.Bhuvanewari Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Soumya Mishra Address of Applicant :Associate Professor, Department of EEE, MVJ College of Engineering, Bangalore, 560067 Bangalore ----- 2)Murari Lal Azad Address of Applicant :Associate Professor/Dept.of EEE, Amity University, Greater Noida Campus, Greater Noida, 201309 Greater Noida ----- 3)R. KIRANMAYI Address of Applicant :Professor, Department of Electrical and Electronics Engineering, JNTUA College of Engineering Anantapur, Anantapur - 515002 Anantapur ----- 4)Pratiksha Gupta Address of Applicant :Assistant Professor, Electrical Engineering, Dr. K.N. Modi Institute of Engineering & Technology,Modinagar, Ghaziabad,U.P. 201204 Ghaziabad ----- 5)S Ambigaipriya Address of Applicant :Assistant Professor/ Department of EEE, Mookambigai College Of Engineering, Pudukkottai, Tamil Nadu Pudukkottai ----- 6)Dr. M V Ramana Rao Address of Applicant :Associate Professor, Department of Electrical Engg., University College of Engineering, Osmania University, Hyderabad, Telangana Hydarabaad ----- 7)Dr. Aarti Sharma Address of Applicant :Assistant Professor, Department of ECE, SRM Institute of Science and Technology Delhi- NCR Campus, Modinagar. U.P., 201204 Modinagar ----- 8)Thirumurugan R Address of Applicant :112B, ASTC Nagar, Dharmapuri Dharmapuri ----- 9)MATTHEW.K Address of Applicant :Assistant Professor, EEE, St.Peter's Institute of Higher Education and Research, (SPIHER) Avadi, Chennai ----- 10)Mohd Asif Shah Address of Applicant :Adjunct Faculty, School of Business, Woxsen University, Kamkole, Sadasivpet, Hyderabad, Telangana, 502345, India. Hyderabad ----- 11)Dr. Vijay Kumar Salvia Address of Applicant :Professor Director ECE International R and D Creativity Organisation USA India Indore MP 452018 Indore ----- 12)A.Bhuvanewari Address of Applicant :Assistant Professor/ EEE/Chettinad College of Engineering and Technology, Karur Karur -----</p>
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(57) Abstract :
Implementation of Classification Models to Improve the Electric Charging Systems to cope up with their exponential growth is the proposed invention. The proposed invention focuses on implementing various classification models in identifying the pros and cons of charging systems. The invention is need of the hour for coping up with exponential growth in electric vehicle sector.

No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : A SYSTEM AND METHOD FOR ANALYSING EXERCISE POSES FOR PATIENTS WITH MUSCULOSKELETAL DISORDERS

(51) International classification :A61P 190000, A61P 190200, A61P 190800, A61P 210000, G16H 203000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT A SYSTEM AND METHOD FOR ANALYSING EXERCISE POSES FOR PATIENTS WITH MUSCULOSKELETAL DISORDERS The present disclosure envisages a system (100) and a method (400) for analyzing exercise poses for patients with musculoskeletal disorders. The system (100) comprises a data repository (102), a processor (104), an input module (106), an assessment module (108), an evaluation module (110), and an output module (112). The assessment module (106) receives said input video streaming of the exercise poses of the patient, and implements a pre-trained assessment model on said input video streaming to determine the class of the input exercise poses of the patient. The evaluation module (108) receives said input video streaming of exercise poses of the patient and the standard exercise pose related to the class determined by the assessment module (106), implements a pre-trained evaluation model for generating a precision output for the correctness of the exercise poses of the patient and transmits the said output in the form of an audio or visual feedback to a user interaction unit (204) of the patient device (114) by an output module (112).

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011793 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : CUSTOMIZED WEBSITE FOR INDUSTRIAL CUSTOMERS IN MANUFACTURING INDUSTRIES

(51) International classification :C12N 094200, G06F 171800, G06Q 100400, G06Q 100600, G06Q 300200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

CUSTOMIZED WEBSITE FOR INDUSTRIAL CUSTOMERS IN MANUFACTURING INDUSTRIES Abstract A company can customize its website to facilitate its customers. In this paper we defined how a manufacturing concern can facilitate its industrial customers and ease their operating process.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011794 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Design of Kernel Extreme Learning Machine based Intelligent Crop Yield Prediction Model

(51) International classification :G06N 030000, G06N 030400, G06N 030800, G06Q 100400, G06Q 500200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Design of Kernel Extreme Learning Machine based Intelligent Crop Yield Prediction Model Abstract Agriculture is the major occupation in India and around half of the population depends on agriculture for their survival. Crop yield prediction (CYP) is a hot research topic since it depends upon several parameters such as environment, rainfall, soil, water, seasonal crop, etc. Machine learning (ML) models are commonly employed for the extraction of important crop features to predict yield. The ML models act as a decision support tool for CYP, which enables to decide on what type of crops can grow and at what season. With this motivation, this paper focuses on the design of kernel extreme learning machine based crop yield prediction (KELM-CYP) model. The goal of the KELM-CYP technique is to predict the crop yield based on different parameters such as state name, season crop, area, and rainfall. The proposed KELM-CYP model initially performs data preprocessing in two levels namely data merging and data normalization. Besides, KELM is a kind of machine learning (ML) based model commonly used for regression and classification processes. KELM is an extended version of extreme learning machine (ELM) by the use of kernel transformation process that allows having improved generalization performance owing to the kernel conversion from the input to kernel space. In order to showcase the enhanced predictive outcome of the KELM-CYP model, a wide range of simulations takes place on benchmark datasets from Kaggle repository. The experimental results pointed out the better performance of the KELM-CYP model interms of different measures.

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : PREPARING A DRUG FOR TREATING OBESITY AND COSMETICALLY TREATING OVERWEIGHT USING AQUAGLYCEROPORINS

<p>(51) International classification :A45D 440000, A61K 086400, A61K 313410, A61P 030400, A61Q 190600</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr Darla Raju Address of Applicant :Assistant Professor, Joginpalli B R Pharmacy College Survey No 156 To 162, Amdapur X Road, Yenkapally, Moinabad, Hyderabad, Telangana -500075 ----- 2)Dr. D.Prasanth 3)Ms. Rachamsetty kavya 4)Ms. Meena bandiya 5)Ms. Neha Sharma 6)Mr. Rohit Malik 7)Ms. Shalini Kesharwani 8)Dr. Avneet Gupta 9)Dr. Sandeep Gupta 10)Dr. Akshit Naveria 11)Mr. Pavan Kumar Krosuri 12)Mr. Alok Semwal Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr Darla Raju Address of Applicant :Assistant Professor, Joginpalli B R Pharmacy College Survey No 156 To 162, Amdapur X Road, Yenkapally, Moinabad, Hyderabad, Telangana -500075 ----- 2)Dr. D.Prasanth Address of Applicant :Associate Professor, Department of Pharmacology, Centurion University, Balasore Campus, Odisha ----- 3)Ms. Rachamsetty kavya Address of Applicant :Assistant Professor, QIS College Of Pharmacy, Praksam, Andhra Pradesh, India - 523002 ----- 4)Ms. Meena bandiya Address of Applicant :Assistant Professor, Ujjain institute of Pharmacy Vikram University Ujjain, Madhya Pradesh, India ----- 5)Ms. Neha Sharma Address of Applicant :Assistant Professor Department of Pharmacy SMAS, Galgotias University, Greater Noida, Uttar Pradesh India ----- 6)Mr. Rohit Malik Address of Applicant :Assistant Professor, Gurugram Global College of Pharmacy, 5 KM Milestone, Kheda Khurampur, Farrukhnagar-Haily Mandi Road, Gurugram 122506, India ----- 7)Ms. Shalini Kesharwani Address of Applicant :Assistant Professor, United Institute of Pharmacy, Naini, Prayagraj- 212208 ----- 8)Dr. Avneet Gupta Address of Applicant :Professor Shiva Institute of Pharmacy, Chandpur, Bilaspur, Himachal Pradesh, India ---- 9)Dr. Sandeep Gupta Address of Applicant :Principal Tagore Institute of Pharmacy and Research, Turkadhi Bypass Road, Sakri, Bilaspur, Chhattisgarh 495001 India ----- 10)Dr. Akshit Naveria Address of Applicant :Associate Professor Dr.K.N.Modi University, Jaipur, Rajasthan, India ----- 11)Mr. Pavan Kumar Krosuri Address of Applicant :Associate Professor Department of Pharmaceutics Santhiram College of Pharmacy, Nerawada, Nandyal district, Andhra Pradesh, India ----- 12)Mr. Alok Semwal Address of Applicant :Assistant Professor SRM Modinagar College of Pharmacy (SRMIST), Delhi-NCR Campus, Modinagar, Ghaziabad, Uttar Pradesh -----</p>
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(57) Abstract :
ABSTRACT PREPARING A DRUG FOR TREATING OBESITY AND COSMETICALLY TREATING OVERWEIGHT USING AQUAGLYCEROPORINS A method for treating a human suffering from obesity comprises administering to said human suffering from obesity a therapeutically effective amount of a purified oleuropein to treat said obesity in the human. The pharmaceutical preparations showing a preventive or therapeutic effect on obesity include GLP receptor agonists, leptin receptor agonists, and DPP inhibitors. A method for treating obesity in a mammalian subject or patient comprising administering to a mammalian subject or patient in need of such treatment a therapeutically effective amount of an SGLT inhibitor. The disease is selected from the group consisting of obesity, metabolic syndrome, diabetes mellitus, insulin-deficiency-related disorders, insulin-resistance-related disorders, glucose intolerance, non-alcoholic fatty liver, abnormal lipid metabolism, and atherosclerosis. A method for treating obesity and overweight comprises the administration of an effective amount of one or more, synthetic or natural alkyl furan. Metal-based inhibitory modulators of cellular transmembrane aquaglyceroporins are characterized in that any of said inhibitory modulators bind selectively with at least one aquaglyceroporin.

No. of Pages : 16 No. of Claims : 1

(54) Title of the invention : IMAGE REGISTRATION TECHNIQUES FOR ACCURATE DIAGNOSIS OF BREAST CANCER BY UTILISING RADIOLOGY

<p>(51) International classification :A61B 061400, A61K 351200, C12Q 016886, G06T 073300, G16H 302000</p> <p>(86) International Application No :PCT/ Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Suman Chandra Aemjal Address of Applicant :Professor, Dept of Radiology, MALLA REDDY INSTITUTE OF MEDICAL SCIENCES, Sy No. 138, Suraram Main Road, GHMC Quthbullapur, Hyderabad, Medchal-Malkajgiri Telangana, 500055 -----</p> <p>2)Dr.G.Hemalatha 3)Dr. Praveen Kumar Dasari 4)Mrs. Meenakshi Jaiswal 5)Ms. Anita Devi Chauhan 6)Dr Chandrasekhar Patil 7)Ushasree R 8)Abirami T 9)Nidhi Saxena 10)Mohd Asif Shah 11)Dr. M. Naveen Kumar 12)Prof. Abhishek Shrivastava</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Suman Chandra Aemjal Address of Applicant :Professor, Dept of Radiology, MALLA REDDY INSTITUTE OF MEDICAL SCIENCES, Sy No. 138, Suraram Main Road, GHMC Quthbullapur, Hyderabad, Medchal-Malkajgiri Telangana, 500055 -----</p> <p>2)Dr.G.Hemalatha Address of Applicant :Associate Professor, Hod-Department Of Pharmaceutical Analysis, Pathfinder Institute Of Pharmacy Education And Research, Warangal, Telangana-506166 -----</p> <p>3)Dr. Praveen Kumar Dasari Address of Applicant :Associate Professor, Department of Pharmaceutical Biotechnology, Mother Teresa Pharmacy College, Sathupally, Khammam, Telangana, 507303 -----</p> <p>4)Mrs. Meenakshi Jaiswal Address of Applicant :Assistant Professor, Department of Pharmacy, Guru Ghasidas Central University, Koni - 495009, Bilaspur, Chhattisgarh, India -----</p> <p>5)Ms. Anita Devi Chauhan Address of Applicant :Assistant Professor, LCIT School of Pharmacy, Bilaspur - 495223, Chattisgarh, India -----</p> <p>6)Dr Chandrasekhar Patil Address of Applicant :Assistant Professor , Dept of Radio Diagnosis, MALLA REDDY Medical College for Womens, Sy No. 138, Suraram Main Road, GHMC Quthbullapur, Hyderabad, Medchal-Malkajgiri, Telangana 500055 -----</p> <p>7)Ushasree R Address of Applicant :Assistant professor, MCA, Dayananda sagar academy of technology & Management, Bangalore, Karnataka -----</p> <p>8)Abirami T Address of Applicant :Assistant Professor / ECE, M.Kumarasamy College of Engineering, Karur, Tamil Nadu 639113 -----</p> <p>9)Nidhi Saxena Address of Applicant :Associate professor, pharmacy, Sagar Institute of Research Technolgy & Science Pharmacy (SIRTSP) Bhopal, MADHYA PRADESH, Pincode - 462023 -----</p> <p>10)Mohd Asif Shah Address of Applicant :Adjunct Faculty, School Of Business, Woxsen University, Kamkole, Sadasivpet, Hyderabad, Telangana, 502345, India. -----</p> <p>11)Dr. M. Naveen Kumar Address of Applicant :System Administrator, CSE Department, Telangana University, Dichpally, Nizamabad, Telangana, 503322 -----</p> <p>12)Prof. Abhishek Shrivastava Address of Applicant :Associate professor / pharmaceutical sciences , Sagar institute of research and technology pharmacy, SAGE University, Bhopal, Madhya Pradesh, 462002 -----</p>
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(57) Abstract :
IMAGE REGISTRATION TECHNIQUES FOR ACCURATE DIAGNOSIS OF BREAST CANCER BY UTILISING RADIOLOGY Activating an external image-acquisition device to measure the shortest distance between the anatomic feature and at least a portion of the external image-acquisition device during the treatment sequence. The first registration device, the second registration device, and the plane registration device are single registration devices. The aligned first image includes the first set of annotations, replicating the first set of annotations to generate a second set of annotations for the aligned second image. Physically securing the breast and maintaining the breast in a repeatable position and a repeatable shape to a chest wall of the patient by securing the breast to a frame suspended from a table supporting the patient. A locator for positioning a patient's breast within a predetermined frame of reference having a predetermined axis extending away from a boundary plane of the predetermined frame of reference. Removing the breast specimen from the patient and in real-time placing it on the specimen platform.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011813 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DYNAMIC ENTERPRISE ARCHITECTURE CAPABILITIES AND ORGANIZATIONAL BENEFITS

(51) International classification :C05G 038000, C12M 013200, G06F 084100, G06Q 100600, G06Q 101000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 DYNAMIC ENTERPRISE ARCHITECTURE CAPABILITIES AND ORGANIZATIONAL BENEFITS ABSTRACT In recent years the literature has put a greater emphasis on theory building in the context of Enterprise Architecture (EA) research. Specifically, scholars tend to focus on EA-based capabilities that organize and deploy organization-specific resources to align strategic objectives with the particular use of technology. Despite the growth in EA studies, substantial gaps remain in the literature. The most noteworthy gaps are that the conceptualization of EA-based capabilities still lacks a firm base in theory and that there is no conclusive evidence on how EA-based capabilities drive business transformation and deliver benefits to the firm. Therefore, this study focusses on EA-based capabilities, using the dynamic capabilities view as a theoretical foundation, develops and tests a new research model that explains how dynamic enterprise architecture capabilities lead to organizational benefits. Hypotheses associated with the research model are tested using a dataset that contains responses from 299 CIO's, IT managers, and lead architects. Results show that dynamic enterprise architecture capabilities positively influence firms' process innovation and business-IT alignment. These mediating forces are both positively associated with organizational benefits. This study advances our understanding of how to efficaciously delineate dynamic enterprise architecture capabilities in delivering benefits to the organization.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : The Effect of Enterprise Architecture Deployment Practices on Organizational Benefit

(51) International classification :A01N 632200, A61B 502200, G06F 086000, G06Q 100600, G06Q 101000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

THE EFFECT OF ENTERPRISE ARCHITECTURE DEPLOYMENT PRACTICES ON ORGANIZATIONAL BENEFITS
ABSTRACT In recent years, the literature has emphasized theory building in the context of Enterprise Architecture (EA) research. Specifically, scholars tend to focus on EA-based capabilities that organize and deploy organization-specific resources to align strategic objectives with the technology’s particular use. Despite the growth in EA studies, substantial gaps remain in the literature. The most substantial gaps are that the conceptualization of EA-based capabilities still lacks a firm base in theory and that there is limited empirical evidence on how EA-based capabilities drive business transformation and deliver benefits to the firm. Therefore, this study focuses on EA-based capabilities, using the dynamic capabilities view as a theoretical foundation, and develops and tests a new research model that explains how dynamic enterprise architecture capabilities lead to organizational benefits. The research model’s hypotheses are tested using a dataset that contains responses from 299 CIO’s, IT managers, and lead architects. Based on this study’s outcomes, we contend that dynamic enterprise architecture capabilities positively enhance firms’ process innovation and business–IT alignment. These mediating forces are both positively associated with organizational benefits. The firms’ EA resources and specifically EA deployment practices are essential in cultivating dynamic enterprise architecture capabilities. This study advances our understanding of how to efficaciously de-lineate dynamic enterprise architecture capabilities in delivering benefits to the organization

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011882 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A PASSWORD-LESS AUTHENTICATION PROTOCOL FOR THE IOT ENVIRONMENT

(51) International classification :G06F 213200, H04L 091400, H04L 093000, H04L 093200, H04W 120600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Since password-based approvals are frequently challenging to administer and come with a number of hazards, the industry is shifting away from them. The methods described here employ a password-free trust-based authorization mechanism that allows dynamic trust-based authorizations to be supplied for devices using a special combination of a user trust scoring system and a gadget risk profile, which addresses a significant problem with regard to remote Internet of Things (IoT) gateway access. Such a strategy will enhance IoT security and assist in resolving a significant security problem inside the IoT and industrial world.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : Intelligent Medical Diagnosis System using Machine Learning and IoT Technologies

(51) International classification :G06N 030400, G06N 030800, G06N 070000, G06N 200000, G16H 502000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The intelligent medical diagnosis system using machine learning and IoT technologies is a powerful tool for healthcare providers to improve medical diagnosis and treatment. The system utilizes real-time patient data collected from a range of IoT devices, which is analyzed using a machine learning algorithm. The algorithm provides clinicians with a diagnosis and personalized treatment recommendations based on the analysis of patient data. The system is highly accurate, efficient, scalable, and secure, providing healthcare providers with a comprehensive picture of the patient's health status. The system has the potential to significantly improve patient outcomes and the overall quality of healthcare.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011886 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : 5G-Enabled Smart Factory Automation System for Industrial Internet of Things (IIoT)

(51) International classification :G05B 190500, G05B 194180, G05B 230200, G06N 030000, H04L 671200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The 5G-enabled smart factory automation system for industrial internet of things (IIoT) is a revolutionary technology that leverages the power of 5G networks to enable real-time data transfer, processing, and analysis for factory automation. This system comprises a network of sensors and devices that collect data from machines and equipment in the factory environment, a central control system that processes and analyzes the data, an advanced automation system that controls and monitors machines and equipment based on the data collected, and a 5G network that provides low-latency, high-speed data transfer between the sensors, devices, and central control system. This enables real-time decision-making and reduces the risk of errors or delays in the manufacturing process, resulting in increased efficiency and productivity. The 5G-enabled smart factory automation system has wide-ranging applications across various industries and has the potential to transform the way factories operate, making them more agile, adaptive, and responsive to changing market conditions.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011887 A

(19) INDIA

(22) Date of filing of Application :21/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Condition Monitoring of Aircraft Engines using Artificial Intelligence

(51) International classification :B64D 450000, B64F 056000, G05B 230200, G07C 050000, G07C 050800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The aircraft condition monitoring framework is a bunch of methods, assets, arrangements, and strategies that are firmly connected to an equipment and programming framework that performs remote monitoring of plane information to all the more likely grasp its current or future usefulness and execution. Various boundaries that influence the general existence of the aircraft's, for example, Engine EGT, N1rpm, N2 rpm, landing gear up line and down line pressure, oleo tension, withdrawal and expansion timings and so on are examined by the Support Guiding Gathering of that specific association and the outcomes are utilized to appraise the disappointments in the part and vital symptomatic moves are made in the impending support timetable of the aircraft relying upon the seriousness. Condition monitoring resembles a specialist finding infection on a patient with the side effects the individual has. Also by consistently monitoring a few significant boundaries we can keep away from numerous disappointments

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : AL BASED HEALTH CARE SYSTEM USING CLOUD COMPUTING IN SMART CITIES

(51) International classification :G01S 074100, H01Q 012200, H01Q 013800, H01Q 210600, H04B 013888
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Health care systems around the world are increasingly turning to cloud computing technology to improve their efficiency and patient outcomes. Cloud computing offers numerous benefits to health care organizations, including improved data storage and access, increased collaboration and communication, and cost savings for both patients and providers. Cloud computing technology can be used to store patient records, including medical histories, test results, and other vital data. Storing this data in the cloud makes it more secure and easily accessible from any device with an internet connection. This makes it easier for doctors and other health care professionals to access the data they need to make informed decisions about patient care. Additionally, cloud computing makes it possible to quickly share medical information between multiple providers, allowing for faster diagnosis and treatment. Cloud computing is also an effective tool for improving collaboration and communication between health care providers. By using cloud-based tools, health care organizations can easily communicate with one another, allowing for better coordination of care and improved patient outcomes. For example, if a provider needs to consult with a specialist, they can arrange a virtual consultation using cloud-based technology. This eliminates the need for expensive and time consuming travel, while allowing providers to quickly communicate with experts in other parts of the world.

No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : DETECTION AND AUTISM SPECTRUM DISORDER IN EEG SIGNAL USING ARTIFICIAL INTELLIGENCE

<p>(51) International classification :A61B 050000, A61B 051600, A61B 053690, A61B 053740, G06N 050400</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. P. Vijayalakshmi Address of Applicant :Professor, Department Of Artificial Intelligence And Data Science, Konerulakshmiiah Education Foundation (Deemed To - Be University), Vadeswaram, Guntur - 522502, Andhra Pradesh, India Guntur -----</p> <p>2)Prof. D. Pawan Kumar Jain</p> <p>3)Dr. Shama J.P. Khanam</p> <p>4)Mr. Vishal Yadav</p> <p>5)Dr. K. Vadivelan M. P. T., Ph.D</p> <p>6)Dr. Vimal Kumar Stephen K</p> <p>7)Dr. R. Sivarama krishnan</p> <p>8)Ms. Pangam Harika</p> <p>9)Prof. Dr. Pratik Rajan Mungekar</p> <p>10)Mr. I Rama Satya Nageswara Rao</p> <p>11)Mr. Thoram Saran Kumar</p> <p>12)Mr. J Logeshwaran</p> <p>13)Dr. V. Kannan</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. P. Vijayalakshmi Address of Applicant :Professor, Department Of Artificial Intelligence And Data Science, Konerulakshmiiah Education Foundation (Deemed To - Be University), Vadeswaram, Guntur - 522502, Andhra Pradesh, India Guntur -----</p> <p>2)Prof. D. Pawan Kumar Jain Address of Applicant :Vice Chancellor, Botany, Eklavya University, Damoh (Mp) - 470661, Madhya Pradesh, India Damoh -----</p> <p>3)Dr. Shama J.P. Khanam Address of Applicant :Principal, Microbiology &Biotechnology, Ojaswini College Par Excellence, Damoh (Mp), Damoh - 470661, Madhya Pradesh, India Damoh -----</p> <p>4)Mr. Vishal Yadav Address of Applicant :Assistant Professor, Mechanical Engineering, Sangam University, Bhilwara - 311001, Rajasthan, India Bhilwara -----</p> <p>5)Dr. K. Vadivelan M. P. T., Ph.D Address of Applicant :Professor, Srm College Of Physiotherapy, Faculty Of Medical And Health Sciences, Srm Institute Of Science And Technology, Srm Nagar, Kattankulathur, Kancheepuram District, Chennai - 603203, Tamilnadu, India Chennai -----</p> <p>6)Dr. Vimal Kumar Stephen K Address of Applicant :Lecturer, Information Technology, University Of Technology And Applied Sciences - Ibra Al Yahmadi, Ibra, Al Sharqiya North Po Box 327, Ibra 400 Sultanate Of Oman -----</p> <p>7)Dr. R. Sivarama krishnan Address of Applicant :Ap (Sr.G), Cse, Kpr Institute Of Engineering And Technology, Coimbatore - 641407, Tamilnadu, India Coimbatore -----</p> <p>8)Ms. Pangam Harika Address of Applicant :Associate Professor Ece, Bonam Venkata Chalamayya Engineering College(A), Odalarevu - 533210, Andhra Pradesh, India Odalarevu -----</p> <p>9)Prof. Dr. Pratik Rajan Mungekar Address of Applicant :Scientist, Professor & Vice Chancellor, Wisdom University Also Associated With Many Universities At Various Positions, Mumbai – 400012, Maharashtra, India Mumbai -----</p> <p>10)Mr. I Rama Satya Nageswara Rao Address of Applicant :Assistant Professor, Ece, Bonam Venkata Chalamayya Engineering College(A), Odalarevu - 533210 Andhra Pradesh, India Odalarevu -----</p> <p>11)Mr. Thoram Saran Kumar Address of Applicant :Assistant Professor, Ece, Bonam Venkata Chalamayya Engineering College (A), Odalarevu - 533210, Andhra Pradesh, India Odalarevu -----</p> <p>12)Mr. J Logeshwaran Address of Applicant :Research Scholar, Department Of Electronics And Communication Engineering, Sri Eshwar College Of Engineering, Coimbatore, Tamil Nadu, India Coimbatore -----</p> <p>13)Dr. V. Kannan Address of Applicant :Managing Director, CLDC Research And Development No.997, Mettupalayam Road, Near X-Cut Signal, R.S.Puram, Coimbatore - 641002, Tamil Nadu, India Coimbatore -----</p>
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(57) Abstract :
Early detection of autism is essential for successful intervention and treatment. Diagnosis of ASD is based on a combination of behavioral observations, parental reports, and clinical assessments. Screening tools such as the Modified Checklist for Autism in Toddlers (M-CHAT) and the Autism Diagnostic Observation Schedule (ADOS) can be used to identify children at risk for autism. Early diagnosis can help individuals and their families access the resources and support they need to effectively manage the condition. Early intervention for individuals with ASD can help to improve communication, social skills, and behavior. Interventions for autism may include behavioral therapy, speech therapy, occupational therapy, and educational interventions. In addition, research suggests that early intervention can help to improve academic performance and quality of life for individuals with ASD. The prevalence of autism spectrum disorder is increasing. It is estimated that one in 59 children in the United States has ASD. As the prevalence of ASD increases, it is essential that clinicians and parents become aware of the signs and symptoms of autism and the importance of early diagnosis. With the right resources and support, individuals with autism can lead healthy and productive lives.

No. of Pages : 8 No. of Claims : 9

(54) Title of the invention : Edge cloud-based platform with hybridized random forest deep learning classification model for COVID-19 with pneumonia detection

<p>(51) International classification :G06K 096200, G06N 030000, G06N 030400, G06N 030800, G06N 070000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Arup Roy, Budge Budge Institute of Technology, Kolkata Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Budge Budge Institute of Technology, Kolkata-700137, West Bengal, India Kolkata -----</p> <p>2)Dr. Pawan Kumar Singh, Jadavpur University, Kolkata</p> <p>3)Mr. Anup Kumar Ghosh, NSHM Knowledge Campus Durgapur-12</p> <p>4)Dr. Manash Sarkar, Atria Institute of Technology, Bengaluru</p> <p>5)Mr. Arup Kumar Dey, Inspiria Knowledge Campus, Siliguri</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Arup Roy, Budge Budge Institute of Technology, Kolkata Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Budge Budge Institute of Technology, Kolkata-700137, West Bengal, India Kolkata -----</p> <p>2)Dr. Pawan Kumar Singh, Jadavpur University, Kolkata Address of Applicant :Assistant Professor, Department of Information Technology, Jadavpur University, Jadavpur University Second Campus, Plot No. 8, Salt Lake Bypass, LB Block, Sector III, Salt Lake City, Kolkata-700106, West Bengal, India Kolkata -----</p> <p>3)Mr. Anup Kumar Ghosh, NSHM Knowledge Campus Durgapur-12 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, NSHM Knowledge Campus, Durgapur-12, Paschim Bardhmaan, West Bengal, India Kolkata -----</p> <p>4)Dr. Manash Sarkar, Atria Institute of Technology, Bengaluru Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Atria Institute of Technology, Bengaluru, Karnataka, India, Pin- 560 024 Bangalore -----</p> <p>5)Mr. Arup Kumar Dey, Inspiria Knowledge Campus, Siliguri Address of Applicant :Assistant Professor, Department of Computer Science, Inspiria Knowledge Campus, Matigara Phase – II Himachal Vihar, Siliguri, West Bengal 734010 Kolkata -----</p>
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(57) Abstract :

At this time, the only known methods of protection against COVID-19 are diagnosis, isolation, and vaccine. COVID-19 is a worldwide pandemic that mostly affects patients' respiratory systems. The current state of COVID-19 prediction testing is inefficient and produces more false positives than it should. Using a remote medical decision support system that uses CT or X-ray images to diagnose sickness with less human interaction and less opportunities for errors is one way to overcome this challenge. State-of-the-art methods typically rely on elaborate deep learning architectures, which are inefficient when applied in low-powered edge devices. To address this issue, this work proposes an optimal hybrid Random Forest Deep learning (HRFDL) classifier using multi-objective Modified Heat Transfer Search (MOMHTS). In the HRFDL architecture, the MOMHTS algorithm primarily optimises the deep learning model by adjusting its hyperparameters to work with the limited hardware at the network's periphery. Extensive experiments are performed on two real-time datasets, the COVID19 lung CT scan dataset and the Chest X-ray pictures (Pneumonia) datasets, to evaluate the efficacy of this method. The suggested technique primarily provides faster communication between IoT devices and COVID-19 detection via the MOMHTS optimised HRFDL classifier is updated to support the resources which can only support limited computation and handle minimum storage. The suggested method achieves 99% accuracy on the COVID19 lung CT scan dataset and the Chest X-ray pictures (Pneumonia) dataset while requiring only a small amount of computing power, money, and space to implement. Based on the results of the simulations, we can say that the proposed methodology is well-suited for edge computing detection of COVID19 and pneumonia.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : The mathematical system's object types include both primitive and non-primitive things

(51) International classification :G06F 171000, G06F 401110, G06F 401660, H04N 191960, H04N 194400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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Filing Date :NA

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(57) Abstract :
 The proposed invention is a mathematical system that includes both primitive and non-primitive object types, where the non-primitive object types are defined in terms of the primitive object types and a set of axioms. The primitive object types may include real numbers, integers, and rational numbers, while the non-primitive object types may include functions, sets, and sequences. The mathematical system can be used to solve mathematical equations and perform various calculations using the defined object types and axioms. The invention also includes a method for solving equations and a computer program product for performing mathematical calculations using the system. The invention can be applied in various fields that require mathematical modeling and analysis.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341011994 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SHIELDING QUILT FOR AUTOMOBILES

(51) International classification :A01G 092200, B60P 030800, B61D 031800, D05B 110000, H01L 235520
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
Abstract Shielding Quilt for Automobiles A collapsible multipurpose sun shield (100) convertible into a cushion (300) comprising of a plurality of sheets of woven fabrics (106,107,108), a plurality of elastic loop members (101, 102,103, 104,105) or optionally, a plurality of vacuum cups (150,151,152,153,154) for fixing it over the front or back glass. It has a layered fabric cover (200) which is flanged at the bottom corner for storing the sun shield (100). The elastic opening (203) of the layered cover (200) will enable the user to easily compress and insert the sun shield into the cover, which can be converted into the shape of the cushion (300) and stored in the back tray of the vehicle (400) as a decorative vehicle accessory or as a vehicle pillow for comfort travelling.

No. of Pages : 21 No. of Claims : 9

(54) Title of the invention : Epileptic Seizure detection using cellular Network and novel classifier

(51) International classification :A61B 050000, A61B 053690, C07D 131200, G06Q 204000, H04W 840400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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Filing Date :NA

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(57) Abstract :
 A lethal neurological condition known as epilepsy has become a huge threat to people's lives on a global scale. The regular pattern of neuronal activity in the nervous system is disrupted by seizures disease, that causes the emergence of critical pathological changes such unusual perceptions, erratic behaviour, deviant emotions, muscle pain, and loss of memory. In order to each year, help thousands of epileptic sufferers avoid death it is urgently necessary to develop an effective method for the early detection of epileptic seizures at their earliest stage. The proposed device uses a 5G cellular network or a Wi-Fi to send detected EEG signals from the patient's scalp to the cloud. An epileptic episode changes the usual form of alteration of Eeg recordings occurs. Consequently, based on variation when examining the EEG signal's properties, epileptic three levels of patients can be distinguished: normal ictal and preictal to obtain complex cognitive data and randomness features, EEG signals are transformed at the cloud applying the Principle component analysis for feature extraction. To address the issue of a high volume of data and to lessen latencies in the care rendered to the consumer, the correlation-based feature representation has been used to minimise the dimensionality of EEG recordings. Such electrical abnormalities in the brain must be noted during the change from either the usual to the ictal stage in order to recognize epilepsy at this point. Because patients would be able to take preventative action to avoid dangerous and life-threatening incidents, this method of early detection of epileptic seizures during the preictal stage could save patients' lives. The computation and test data demonstrate that the Random Forest classifier offers peak value of accuracy rate of 99.5%, responsiveness of 99.40%, and precision of 99.66%, mmse error of 0.0871, and optimal training of 20 ms, which makes this model more real time compatible. Algorithm's cloud model an effective method for early and automatic detection of epileptic seizures in real time. A legitimate evidence - based treatment system for epileptic seizures in the internet of things (IoT) era could save thousands of epileptic victims' lives. In this study, an early detection method for automated epileptic seizures is proposed to early identify epileptic spasms. The model investigated cloud server utilizing FWHT-based EEG monitoring

No. of Pages : 5 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012128 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : POWER CONVERTER WITH REVERSE POWER ROUTING

(51) International classification :G06F 303940, H02J 033800, H02J 130000, H04L 121000, H04M 190800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a power converter. The power converter includes one or more power converter stages; a reverse power routing unit electrically configured with the one or more power converter stages for reducing power ripples in an output of the one or more power converter stages, wherein the reverse power routing unit comprises a combination of a capacitor and inductor.

No. of Pages : 9 No. of Claims : 3

(54) Title of the invention : A METHOD FOR EARLY DETECTION OF ATHEROSCLEROSIS

<p>(51) International classification :A61B 030000, A61B 050000, A61P 091000, H04L 471000, H04L 473200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. KALAISELVI PERIANDAVAN Address of Applicant :DEPARTMENT OF MEDICAL BIOCHEMISTRY, DR. ALM PGIBMS, UNIVERSITY OF MADRAS, TARAMANI CAMPUS, CHENNAI CHENNAI TAMIL NADU INDIA 600 113 Chennai -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. KALAISELVI PERIANDAVAN Address of Applicant :DEPARTMENT OF MEDICAL BIOCHEMISTRY, DR. ALM PGIBMS, UNIVERSITY OF MADRAS, TARAMANI CAMPUS, CHENNAI CHENNAI TAMIL NADU INDIA 600 113 Chennai -----</p> <p>2)DIVYA BHAVANI RAVI Address of Applicant :DEPARTMENT OF MEDICAL BIOCHEMISTRY, DR. ALM PGIBMS, UNIVERSITY OF MADRAS, TARAMANI CAMPUS, CHENNAI CHENNAI TAMIL NADU INDIA 600 113 Chennai -----</p> <p>3)ABINAYAA RAJKUMAR Address of Applicant :DEPARTMENT OF MEDICAL BIOCHEMISTRY, DR. ALM PGIBMS, UNIVERSITY OF MADRAS, TARAMANI CAMPUS, CHENNAI CHENNAI TAMIL NADU INDIA 600 113 Chennai -----</p>
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(57) Abstract :

TITLE: A METHOD FOR EARLY DETECTION OF ATHEROSCLEROSIS APPLICANT: DR. KALAISELVI PERIANDAVAN

ABSTRACT The present invention discloses an in-vitro assay for atherosclerosis risk prediction in diabetic patients. The in-vitro assay of the present invention comprises of a. collecting random whole blood sample from a diabetic patient and separating serum by centrifugation; b. assessing activity of enzyme Paraoxonase 1 in the serum by determining amount of enzyme required to release 1µM of p-nitrophenol/min IU as Paraoxonase 1 in IU/L; c. determining level of Ox-LDL in the serum sample by ELISA method to obtain the concentration as Oxidized LDL in ng/L; d. computing the ratio of in which i. if the ratio is lesser than 0.189 indicates lower or no risk for the development of atherosclerosis in diabetic patients or alternately; ii. if the ratio is greater than or equal to the cutoff value of 0.190, indicates the higher risk of developing atherosclerosis in diabetic patients.

No. of Pages : 23 No. of Claims : 3

(54) Title of the invention : METHOD FOR DETERMINING AUTHENTICITY OF VIDEO DATA AND AN ELECTRONIC DEVICE THEREOF

<p>(51) International classification :G06F 162300, G06F 217300, H04L 091400, H04L 094000, H04N 216100</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)COLLEGE OF ENGINEERING TRIVANDRUM Address of Applicant :Engineering College, Sreekaryam - Kulathoor Rd, P.O, Sreekariyam, Thiruvananthapuram, Kerala 695016, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shreelekshmi R Address of Applicant :c/o. COLLEGE OF ENGINEERING TRIVANDRUM, Engineering College, Sreekaryam - Kulathoor Rd, P.O, Sreekariyam, Thiruvananthapuram, Kerala 695016, India -----</p> <p>2)Linju Lawrence Address of Applicant :c/o. COLLEGE OF ENGINEERING TRIVANDRUM, Engineering College, Sreekaryam - Kulathoor Rd, P.O, Sreekariyam, Thiruvananthapuram, Kerala 695016, India -----</p>
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(57) Abstract :

Embodiments of the present disclosure disclose a method (400) and electronic device (100) for determining authenticity of video data. The method includes acquiring (402) the video data and generating (404) compressed reference data (202) of the video data. The compressed reference data includes video segments (202a) of the video data. The method includes creating (406) blocks in a blockchain network (110) corresponding to the video segments. The method includes generating (408) a video data signature (208a) and a block signature (208b) for each video segment and block, respectively, based on a digital signature technique. The method includes storing (410) the video data signature, a public key of a first private and public key pair (206a) and security information in the block, and the block signature and a public key of the second private and public key pair (206b) of the block in a subsequent block of the blockchain network. Figure of Abstract: FIG. 1

No. of Pages : 36 No. of Claims : 13

(54) Title of the invention : An online quiz and assessment system using ICT tools to improve student learning outcomes

(51) International classification :G06K 096200, G06Q 502000, G09B 070000, G09B 070200, G16H 106000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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(57) Abstract :

The present invention relates to an online quiz and assessment system that uses Information and Communication Technology (ICT) tools to improve student learning outcomes. The system is designed to efficiently measure and report performance for students, professors, classes, course sections, courses, or programs over extended periods of time based on established learning outcomes for purposes of accreditation review. The system includes a server that receives and stores assessment data, a database for storing student performance data, and a user interface for administering assessments and viewing performance data. The assessments include multimedia or interactive teaching tools, in addition to traditional lectures, assignments, and exams. The system further includes a set of standardized learning outcomes or learning objectives for each course or program, against which student performance data is compared. Reporting tools enable administrators and educators to demonstrate student achievement or teaching effectiveness in terms of standardized learning outcomes or learning objectives, while trend analysis and data visualization tools enable them to identify areas for improvement or concern over extended periods of time. The system provides a valuable tool for educational institutions seeking to improve student learning outcomes and meet accreditation requirements.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR A WEARABLE DEVICE TO MONITOR AND ANALYZE HUMAN BODY VITALS

(51) International classification :A61B 050000, A61B 050100, A61B 050205, A61B 050240, A61B 051450

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

A system (10) for wearable device (20) to monitor and analyze human body vitals is provided. The wearable device is coupled with a human body includes an ECG sensor (40) and a respiratory sensor (50) to sense ECG and respiration analog signals respectively from the human body during workout, physical activity and rehabilitation. A converter (35) to convert ECG and respiration analog signals into digital ECG and respiration signals. A set (60) of temperature sensors and physical sensors to sense temperature signal and physical parameters from the human body. A controlling unit (90) to receive the digital ECG, respiration signals, the temperature signal and the physical parameters. The system includes a signal processing module (120) to eliminate artifacts from the ECG, respiration signals, the temperature and the physical parameters, received from the controlling unit, using filtration technique to obtain absolute biophysical signals. The signal processing module calculates the human body vitals based on corresponding absolute biophysical signals using a least mean square technique. FIG. 1

No. of Pages : 32 No. of Claims : 9

(54) Title of the invention : “A METHOD FOR SECURING DIGITAL SUBSTATIONS AND SYSTEM THEREOF”

(51) International classification :G06F 211000, H02G 090600, H04L 090800, H04L 093200, H04L 670000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 A METHOD FOR SECURING DIGITAL SUBSTATIONS AND SYSTEM THEREOF The present disclosure relates to securing digital substation. A switching node is configured to connect a decoy network and a substation communication network. Further, a plurality of bogus medium access control (MAC) IDs are created that resembles similar to a plurality of critical 5 media access control (MAC) IDs exchanged between a plurality of intelligent electronic devices (IEDs) present in the substation communication network. Furthermore, the plurality of bogus MAC IDs are provided to the decoy network for communicating with the alien device. In this way, one or more malicious attack requests received from the alien device are detected. Further, the switching node may switch the substation network to the decoy network for displaying a set of 10 bogus MAC IDs to the alien device depending on type of the one or more malicious attack requests. [Figure 5]

No. of Pages : 41 No. of Claims : 29

(54) Title of the invention : DESIGNING AND FORMULATING OF DAIRY-FREE ICE CREAM BY BLENDING WITH PERUVIAN GROUNDCHERRY (PHYSALIS PERUVIANA)

<p>(51) International classification :A23G 092800, A23G 093200, A23G 093400, A61K 368100, A61L 170000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PAAVAI ENGINEERING COLLEGE Address of Applicant :PAAVAI INSTITUTIONS, PAAVAI NAGAR, NH-44, PACHAL, NAMAKKAL (D.T) -637 018, TAMILNADU, INDIA Namakkal -----</p> <p>2)DR. KAILASH.S Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. KAILASH.S Address of Applicant :PROFESSOR, DEPARTMENT OF FOOD TECHNOLOGY, PAAVAI ENGINEERING COLLEGE, PAAVAI NAGAR, NH-44, PACHAL, NAMAKKAL (D.T) -637 018, TAMILNADU, INDIA Namakkal -----</p> <p>2)HARIHARAN. A. R Address of Applicant :UG STUDENT, DEPARTMENT OF FOOD TECHNOLOGY,PAAVAI ENGINEERING COLLEGE, PAAVAI NAGAR, NH-44, PACHAL, NAMAKKAL (D.T) -637 018, TAMILNADU, INDIA. Namakkal -----</p> <p>3)IMAYAVAN. G Address of Applicant :UG STUDENT, DEPARTMENT OF FOOD TECHNOLOGY ,PAAVAI ENGINEERING COLLEGE, PAAVAI NAGAR, NH-44, PACHAL, NAMAKKAL (D.T) -637 018, TAMILNADU, INDIA Namakkal -----</p> <p>4)RAMYA. N Address of Applicant :UG STUDENT, DEPARTMENT OF FOOD TECHNOLOGY, PAAVAI ENGINEERING COLLEGE, PAAVAI NAGAR, NH-44, PACHAL, NAMAKKAL (D.T) -637 018, TAMILNADU, INDIA. Namakkal -----</p> <p>5)SIVASHANKAR. C Address of Applicant :UG STUDENT, DEPARTMENT OF FOOD TECHNOLOGY, PAAVAI ENGINEERING COLLEGE,PAAVAI NAGAR, NH-44, PACHAL, NAMAKKAL (D.T) -637 018, TAMILNADU, INDIA. Namakkal -----</p>
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(57) Abstract :

ABSTRACT A MOBILE WIRELESS VIDEO SURVEILLANCE ROBOT FOR CONSTANT SIGHTING CHECK A robot has been developed which can be used for multipurpose applications related to surveillance with a wireless motive. It is mainly implemented for monitoring various circumstances in the surrounding environment. We propose a cost effective four wheels surveillance robot using raspberry pi microcontroller which employ servomotor including DC Motor, RC receiver and transmitter, various types of different sensors etc. A high resolution video camera is attached with the robot for acquisition of images and video from the surrounding. By watching the situational images and videos, it is the user who can get the idea of environment. This system is very useful for monitoring in areas where there is no Internet connection and also the collapse of the communication system during any disaster. Our project "Wireless Surveillance Robot" describes the scopes and methods. This invention is designed to develop a robotic vehicle using android application for remote operation attached with wireless camera for monitoring purpose. The robot along with camera can wirelessly transmit real time video with night vision capabilities. This is kind of robot can be helpful for spying purpose in war fields. The wi-fi technology is relatively new as compared to other technologies and there is huge potential of its growth and practical application. The android application loaded on mobile devices, can connect with security system and easy to use GUI.

No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : PREPARATION OF FRUIT BAR AND SAUCE USING MORINDACITRIFOLIA

(51) International classification :A23L 170000, A23L 190000, A23L 230000, A23L 250000, A23L 275000

(86) International Application No :PCT// /
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 PREPARATION OF FRUIT BAR AND SAUCE USING MORINDACITRIFOLIA ABSTRACT Morinda citrifolia (Noni) has been used in folk medicine for over 2000 years its every part like roots, stem, bark, leaves, flowers and fruit is utilized in various combinations for herbal remedies. Recently, the fruit is in high demand as food supplement or alternative herbal medicine for different kind of illnesses. The fruits are edible, but don't have a nice taste or smell. Hence, noni fruit was used to prepare noni fruit bar and sauce. Noni fruit bar was prepared using pineapple pulp and noni pulp blended with coconut sugar to overcome the strong flavour of noni and also to improve nutritional value of fruit bar, pineapple and noni fruit pulp were used at different concentrations. Coconut sugar added to improve taste of the final product. Noni chilli sauce was prepared using noni pulp and green chilli. Accordingly, samples of noni fruit bar and noni sauce were formulated. The formulated noni-based fruit bar and sauce samples were organoleptically analyzed for quality attributes like color, appearance, flavour, texture, taste and overall acceptability. The organoleptic evaluation of fruit bar indicated that sample having 80 percent noni pulp, 20 percent of pineapple pulp and 20 percent coconut sugar scored highest rank on the 9 point hedonic scale and the organoleptic evaluation of noni green chilli sauce indicated the sample having 95 percent and 5 percent of green chilli scored highest rank on the 9 point hedonic scale.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : RP-UPLC METHOD FOR ESTIMATION OF FAVIPIRAVIR IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF

<p>(51) International classification :A61B 051600, A61K 314965, A61P 311200, C07D 412400, C08G 770000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Vanga Mohan Goud Address of Applicant :Associate Professor & HOD, Department of Pharmaceutical Chemistry and Analysis, Joginpally B.R Pharmacy College, Jawaharlal Nehru Technological University, Hyderabad, Telangana-500075, India -----</p> <p>2)Dr. Pittu Vishnu Priya</p> <p>3)Dr Bhaskar Jimidi</p> <p>4)Mr. Paidigummal Uday kumar</p> <p>5)Mr. Tadakapally Ramchander</p> <p>6)Mr. Raja kumar Devara</p> <p>7)Mrs. Indrapati Mamatha</p> <p>8)Mrs. G. Sudha Rani</p> <p>9)Ms. Koppula Maheshwari</p> <p>10)Mrs. Sheri Sowmya</p> <p>11)Dr. Jandhyala Venkata Chalapathi Sharma</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Vanga Mohan Goud Address of Applicant :Associate Professor & HOD, Department of Pharmaceutical Chemistry and Analysis, Joginpally B.R Pharmacy College, Jawaharlal Nehru Technological University, Hyderabad, Telangana-500075, India -----</p> <p>2)Dr. Pittu Vishnu Priya Address of Applicant :Associate Professor & HOD, Department of Pharmaceutical Biotechnology, Joginpally B.R Pharmacy College, Hyderabad, Telangana-500075, India -----</p> <p>3)Dr Bhaskar Jimidi Address of Applicant :Associate Professor & HOD, Department of Pharmaceutics and Biotechnology, Bharat Institute of Technology, Hyderabad, Telangana- 501510, India -----</p> <p>4)Mr. Paidigummal Uday kumar Address of Applicant :Graduate Student, Department of Pharmaceutical Analysis, Joginpally B.R Pharmacy College, Hyderabad, Telangana-500075, India -----</p> <p>5)Mr. Tadakapally Ramchander Address of Applicant :Assistant Professor & HOD, Department of Pharmaceutics, Mother Teresa College of Pharmacy College, Hyderabad, Telangana- 501301, India -----</p> <p>6)Mr. Raja kumar Devara Address of Applicant :Assistant Professor & HOD, Department of Pharmaceutics, Mother Teresa College of Pharmacy College, Hyderabad, Telangana- 501301, India -----</p> <p>7)Mrs. Indrapati Mamatha Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, Joginpally B.R Pharmacy College, Hyderabad, Telangana-500075, India -----</p> <p>8)Mrs. G. Sudha Rani Address of Applicant :Assistant Professor, Department of Pharmacognosy, Joginpally B.R Pharmacy College, Hyderabad, Telangana-500075, India -----</p> <p>9)Ms. Koppula Maheshwari Address of Applicant :Assistant Professor, Department of Pharmaceutics, Joginpally B.R Pharmacy College, Hyderabad, Telangana-500075, India -----</p> <p>10)Mrs. Sheri Sowmya Address of Applicant :Graduate Student, Department of Pharmaceutical Analysis, Joginpally B.R Pharmacy College, Hyderabad, Telangana-500075, India -----</p> <p>11)Dr. Jandhyala Venkata Chalapathi Sharma Address of Applicant :Principal & Professor, Joginpally B.R Pharmacy College, Hyderabad, Telangana-500075, India -----</p>
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(57) Abstract :

The present invention provides a simple, accurate and precise method for the estimation of favipiravir in pharmaceutical dosage form. The present invention relates a method for the estimation of favipiravir by RP-UPLC in bulk and tablet dosage forms. The method for simultaneous estimation of favipiravir in pharmaceutical dosage form, comprising of dissolving Favipiravir using acetonitrile and 0.1% Ortho phosphoric acid as mobile phase in the ratio of 40:60 %v/v, running chromatogram through column C18, 100mm x 2.1 mm, 1.8m using mobile phase, optimizing conditions of column at flow rate 0.3ml/min, detecting wavelength at 226nm, injecting volume 0.50µL; and column temperature at 30°C; running the sample and recording chromatogram from the chromatograph for estimation of Favipiravir. The method for simultaneous estimation of Favipiravir, wherein the linearity ranges between 25% to150% levels, R2 value 0.999, precision 1.0 for repeatability and 0.3 for intermediate precision, LOD 0.12µg/ml and LOQ 0.35µg/ml. The developed method is specific for the estimation of favipiravir in the bulk and pharmaceutical dosage forms. The present RP-UPLC method has excellent sensitivity, precision and reproducibility.

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012227 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Traffic Baton for Detecting and Tracking Violation Vehicles and Method Thereof

(51) International classification :F41B 150200, G08G 010170, G11B 070900, H02J 070000, H04L 431600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Traffic Baton for Detecting and Tracking Violation Vehicles and Method Thereof The present disclosure proposes tracking device (100) detects and tracks fined or criminal or violation vehicles, thereby enabling public officials to quickly and safely respond to a violation and pursue an offender in an appropriate manner. The tracking device (100) for detecting and tracking violation vehicles comprises a handle (102), an elongated body (104), a capturing unit (106), an alert unit (108), a light emitting unit (112), a display unit (114), a global positioning system (GPS) module (116), a power source (118) and a controller (120).The proposed tracking device (100) automatically verifies whether the vehicle that is present in the crime list or not. The proposed tracking device (100) assists traffic police by guiding them towards criminal or fined vehicle. The proposed tracking device 100 projects a danger light on the violation vehicle.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012228 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Self-Wringing Mop with a Dual Twist Mechanism and Method of Operating the Same

(51) International classification :A47L 131440, A47L 131460, A61B 178600, A61M 250900, C09K 086800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Self-Wringing Mop with a Dual Twist Mechanism and Method of Operating the Same The present disclosure proposes a self-wringing mop (100) with a dual twist mechanism. The self-wringing mop 100 comprises an elongated housing (102) that is configured with at least two holders (104) and at least two openings for protruding at least two rotating handles (106a, 106b) out of the elongated housing (102). At least two EAP arms (112) are configured to squeeze a mop head (116) where each EAP arm (112) is connected to each rotating handle (106a, 106b) through a moveable bar (114). The proposed mop with the dual twisting mechanism effectively squeezes water from the mop head with no physical effort. The proposed mop with the self-twist mechanism can effectively twist and squeeze the mop head preventing the user to squeeze the mop head directly with bare hands.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012229 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Portable Concrete Mixer with a Foot-Pedal Mechanism and Method of Operating the Same

(51) International classification :A61B 178600, A61M 250900, B28C 054200, C04B 201000, C09K 086800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Portable Concrete Mixer with a Foot-Pedal Mechanism and Method of Operating the Same The present disclosure proposes a portable concrete mixer with a foot-pedal mechanism. The portable concrete mixer system (100) comprises a concrete mixing drum (106) and a foot-pedal unit (112). A moveable foot platform (114) of the foot pedal unit (112) is attached with a pair of springs (116) at bottom to compress when a user presses the moveable foot platform (114) downward through a foot. The portable concrete mixer system (100) is disclosed for mixing concrete with less human efforts in a continuous process. The portable concrete mixer system (100) mixes concrete without using electrical power or diesel or petrol. The portable concrete mixer system (100) prepares concrete mixtures in less time with precision. The simple portable concrete mixer system (100) can be operated by a layman.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012230 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Power-Driven Hand-Held Profile Cutting Tool and Method of Operating the Same

(51) International classification :A61B 171700, B23C 051000, B24B 270600, B25F 050000, E21B 330380
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Power-Driven Hand-Held Profile Cutting tool and Method of Operating the Same The present disclosure proposes a power-driven hand-held profile cutting tool (100) that facilitates the user in performing intricate internal profiles without the need for an alternative tool or changing the tool head or blade. The power-driven hand-held profile cutting tool (100) comprises a housing 102, a transmission unit (110) operably connected to a driving unit (112) to generate relative motion, a lever (142) protruded outside of the housing (102) to be actuated by a user to engage and disengage the primary shaft (138) and crank shaft (140) for performing the narrow cuts and profile cutting operation based on the user requirement, a cutting blade (148) removably attached to the holder (128) to perform narrow cuts and profile cutting operations upon the activation of the driving unit (112) and lever assembly (136) based on the users requirement.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : A Regioselective Synthesis of 1,2-Disubstituted Benzimidazole

(51) International classification :A61K 314184, C07D 011200, C07D 011400, C07D 051400, C07D 350600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Regioselective Synthesis of 1,2-Disubstituted Benzimidazole The present disclosure proposes an effective method for synthesis of 1,2-disubstituted benzimidazoles in single step to achieve high reaction rate. The proposed 1,2-disubstituted benzimidazoles is synthesized in a single continuous process by utilising easily available, low-cost and less toxic sodium fluoride (NaF) catalyst, which enhances yields of 1,2-disubstituted benzimidazoles. The method achieves high yield of the 1,2-disubstituted benzimidazoles with less amount of catalyst and thereby reduce the cost of production of 1,2-disubstituted benzimidazoles based drugs. The proposed method utilises a single catalyst for the synthesis of 1,2-disubstituted benzimidazoles at various conditions, which can be easily removed from the end product (1,2-disubstituted benzimidazoles). The method for synthesis of 1,2-disubstituted benzimidazoles eliminates the additional steps required to obtain 1,2-disubstituted benzimidazoles.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012232 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Portable Self-Cleaning Toilet Accessory and Method of Operating the Same

(51) International classification :A47K 170200, C09D 051600, E03D 090000, E03D 090800, H02S 401000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Portable Self-Cleaning Toilet Accessory and Method of Operating the Same The present disclosure proposes a self-cleaning apparatus installed to a toilet setup for self-cleaning the toilet reducing undesired odor in and around the toilet bowl. The portable self-cleaning toilet apparatus (100) comprises a housing (102), a water storage chamber (104), a plurality of cleaning agent chambers (108, 110), a mixing chamber (112), a flush control unit (114) and a controller (116). The portable self-cleaning toilet apparatus (100) reduces the undesired odor released from toilet bowls. The portable self-cleaning toilet apparatus (100) can be installed as an accessory on existing flush tanks. The proposed apparatus (100) does not let the P-trap dry out even during summer seasons and control the sewer gases flowing into the bathroom. The proposed apparatus (100) reduces manual cleaning by automating the cleaning cycle with user selection.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012233 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Regioselective Synthesis of 2-Substituted Benzimidazole

(51) International classification :A61K 092400, A61K 314150, A61K 330000, A61K 365340, A61P 430000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: A Regioselective Synthesis of 2-Substituted Benzimidazole The present disclosure proposes an effective method for synthesis of 2-substituted benzimidazole in single step to achieve high reaction rate. The proposed 2-substituted benzimidazole is synthesized in a single continuous process by utilising easily available, low-cost and less toxic sodium fluoride (NaF) catalyst, which enhances yields of 2-substituted benzimidazoles. The method achieves high yield of the 2-substituted benzimidazoles with less amount of catalyst and thereby reduce the cost of production of 2-substituted benzimidazoles based drugs. The proposed method utilises a single catalyst for the synthesis of 2-substituted benzimidazoles at various conditions, which can be easily removed from the end product (2-substituted benzimidazoles). The method for synthesis of 2-substituted benzimidazoles eliminates the additional steps required to obtain 2-substituted benzimidazoles.

No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : System Design for an Improved Method for Evaluating Employee Appraisal in Companies Using Machine Learning

<p>(51) International classification :G06N 030800, G06N 200000, G06Q 100600, G06Q 101000, G06Q 300200</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Nirupa Lakshmi, Galgotias College of Engineering and Technology Address of Applicant :Professor and Head, Department of Management Studies, Galgotias College of Engineering and Technology, Greater Noida Knowledge Park 1, Greater Noida, Gautam Buddha Nagar-201310 Greater Noida -----</p> <p>2)Dr. Muskan Khan, Galgotias College of Engineering and Technology</p> <p>3)Dr. Swati Singh, Galgotias College of Engineering and Technology</p> <p>4)Ms. Deepti Tripathi, Galgotias Institute of Management and Technology</p> <p>5)Dr. Purushottam Kumar Tripathi, Galgotias Institute of Management and Technology</p> <p>6)Ms. Ankita Singh, Greater Noida Institute of Technology</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Nirupa Lakshmi, Galgotias College of Engineering and Technology Address of Applicant :Professor and Head, Department of Management Studies, Galgotias College of Engineering and Technology, Greater Noida Knowledge Park 1, Greater Noida, Gautam Buddha Nagar-201310 Greater Noida -----</p> <p>2)Dr. Muskan Khan, Galgotias College of Engineering and Technology Address of Applicant :Assistant Professor, Department of Management Studies, Galgotias College of Engineering and Technology, Greater Noida Knowledge Park 1, Greater Noida, Gautam Buddha Nagar-201310 Greater Noida -----</p> <p>3)Dr. Swati Singh, Galgotias College of Engineering and Technology Address of Applicant :Assistant Professor, Department of Management Studies, Galgotias College of Engineering and Technology, Greater Noida Knowledge Park 1, Greater Noida, Gautam Buddha Nagar-201310 Greater Noida -----</p> <p>4)Ms. Deepti Tripathi, Galgotias Institute of Management and Technology Address of Applicant :Assistant Professor, Department of Management Studies, Galgotias Institute of Management and Technology, Greater Noida Knowledge Park-1, Greater Noida, Gautam Buddha Nagar-201310 Greater Noida -----</p> <p>5)Dr. Purushottam Kumar Tripathi, Galgotias Institute of Management and Technology Address of Applicant :Assistant Professor, Department of Management Studies, Galgotias Institute of Management and Technology, Greater Noida Knowledge Park-1, Greater Noida, Gautam Buddha Nagar-201310 Greater Noida -----</p> <p>6)Ms. Ankita Singh, Greater Noida Institute of Technology Address of Applicant :Assistant Professor, School of Management, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park II, Greater Noida, Gautam Buddha Nagar, Uttar Prades 201310 Greater Noida -----</p>
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(57) Abstract :

Businesses must maintain their ability to adapt to remain competitive in today’s. ever-evolving industry. They must collect and evaluate data continuously to make educated decisions and take appropriate measures. As a result, since the turn of the 20th century, managers’ preferred areas of interest have been connected to the achievement of their companies. This systematic review aimed to assess the most important methodologies for measuring employee performance in organizations. Using the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) technique. Employee attrition occurs naturally owing to several unavoidable circumstances. Employee attrition costs an organization a lot. New hires cost USD 4129, according to SHRM. 2021 attrition was 57.3%. A research study and learning framework are needed to understand and predict employee attrition. This study employed machine learning to assess organizational characteristics and predict employee attrition. Comparing four machine learning methods. The improved Extra Trees Classifier (ETC) predicted employee attrition. The proposed method outperformed current research. Employee Exploratory Data Analysis (EEDA) was utilized to identify attrition reasons. Our analysis found that employee attrition is driven by monthly salary, hourly rate, job level, and age. Our methodology and research findings reduce employee attrition by reducing the causes.

No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : IoT-driven design system using machine learning for detecting driver drowsiness

(51) International classification :B60K 280600, G06N 030400, G06N 030800, G06N 200000, G08B 210600

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

We employ electronic control unit identification analysis and data interpretation to automatically extract proprietary in-vehicle data from sensor data. The proposed system uses threshold, random forest, and long short-term memory algorithms to determine the vehicle's driving state using inertial measurement units and global positioning system readings. Cars now contain sensors to retrieve basic information from the onboard controller area network (CAN) system, such as engine speed and vehicle speed. Nevertheless, extracting sensitive data from CAN frames, such as brake and steering functions needed to investigate driver behavior, is difficult. Then, the system divides CAN frames from the car and ranks each segment using our scoring method to find promising opportunities based on their predicted and real distances. A nonlinear model-predictive control (NMPC) system controls vehicles using an estimating method. We tested the method in a metropolis with real cars. The performance evaluation reveals that the techniques can forecast driving situations and autonomously retrieve confidential automobile data.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : PREPARATION OF BISCUIT FROM HIBISCUS SABDARIFFA

(51) International classification :A61K 331800, A61K 361850, B27F 050200, B65B 231000, C07D 073300

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT The biscuit occupies a notable position among the cereal-based baked products. Biscuits are accepted by consumers of all age groups due to its availability in various shapes, fillings, colours and toppings. Hibiscus sabdariffa or Roselle belongs to Malveceae family. In India green leafy vegetables are considered as economical vegetables and available throughout the year. Their application in processed food for enhancement of nutritional characteristics has not been completely explored. The aim of the study to prepare biscuits from Hibiscus sabdariffa leaves. it is rich in minerals (potassium and magnesium), vitamins (vitamin A and C, thiamine, riboflavin, and niacin) and it has plenty of health benefits such as antiscorbutic, anti-inflammatory and antibacterial properties. It also provides relief from menstrual cramps and reduces the risk of cancer and cardiovascular diseases and is a treatment for hypertension, anxiety and liver disorders.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012248 A

(19) INDIA

(22) Date of filing of Application :22/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IoT BASED SMART TRASH

(51) International classification :B65F 011400, H04L 090600, H04L 093000, H04L 671200, H04L 676300
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No: NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

We are living in the modern society but the spread of diseases due to virus and other microorganisms causes pandemic , to avoid these we must be aware and need to be very clean and protected. We are lacking in infrastructure to achieve this clean and safe environment. In order to obtain this we have implemented IoT based Smart Trash. Trash is very essential in every place. Trash which is not maintained properly makes the environment unsanitary and increases the spread of dreadful diseases. So the smart trash based on IoT system helps in maintaining the garbage safely .This Smart trash mainly focuses on smart cities. It works using arduino microcontroller ,ultrasonic sensor and servo motor . The lid of trash can opens automatically when waste is sensed by the ultrasonic sensor. The main conception behind trash bin using arduino is object detection . It helps in maintaining health and hygiene of the society . Arduino code is used to run the entire system .

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012258 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATIC BROADCAST MANURE SPREADER

(51) International classification :A01C 030600, A01C 170000, A01C 230000, C05F 030000, H04W 040600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT An Automatic Broadcast manure Spreader 100 moves forward with a tractor in motion and a drive power from the Power Take Off (PTO) shaft 110 of the tractor helps to rotate crusher rolls 107 & 108, a screw conveyor 109 and a bevel gear 111C through gears 123, 124, 125, 126 and pulley's belt 119, 120, 121, 122, 123, 124 arrangement. The manure stored in the trailer 101 is crushed by the crusher rolls 107 & 108 with blades welded on it which breaks the lumps/chunks and powdered manure falls into the screw conveyor 109 by gravity. The outlet of the screw conveyor is controlled by a slide gate 106 open/close operations to deliver the required quantity of manure to a spreader disc 105. Finally, the manure is thrown off upon the field by the spreader disc 105 using centrifugal action in an even and uniform manner.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012316 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SECURITY FOR ONLINE BANKING AND TRANSACTIONS

<p>(51) International classification :G06Q 201000, G06Q 400000, G06Q 400200, G07F 190000, H04L 090600</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. A. K. Reshmy Address of Applicant :Assistant Professor, Department of Computational Intelligence, College of Engineering and Technology, School of Computing, SRMIST, Kattankulathur, Chennai, Tamil Nadu, India. Chennai -----</p> <p>2)Dr. R. A. Karthika 3)A. Rohini 4)Dr. Chintala Lakshmana Rao 5)Veer Bhadra Pratap Singh 6)Dr. Sudha Rajesh</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. A. K. Reshmy Address of Applicant :Assistant Professor, Department of Computational Intelligence, College of Engineering and Technology, School of Computing, SRMIST, Kattankulathur, Chennai, Tamil Nadu, India. Chennai -----</p> <p>2)Dr. R. A. Karthika Address of Applicant :Assistant Professor, Department of Computational Intelligence, College of Engineering and Technology, School of Computing, SRMIST, Kattankulathur, Chennai, Tamil Nadu, India. Chennai -----</p> <p>3)A. Rohini Address of Applicant :Assistant Professor, Department of Artificial Intelligence & Data Science, Easwari Engineering College(Autonomous), Bharathi Salai, Ramapuram Chennai - 600 089, Tamil Nadu, India. Chennai -----</p> <p>4)Dr. Chintala Lakshmana Rao Address of Applicant :Associate Professor, School of Law, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, India. Vishakapatnam -----</p> <p>5)Veer Bhadra Pratap Singh Address of Applicant :Assistant Professor, Department of School of CSIT, Department of Cyber Security, Symbiosis Skills and Professional University, Kiwale, Pune, Maharashtra, India. Pune -----</p> <p>6)Dr. Sudha Rajesh Address of Applicant :Assistant Professor, Department of Computational Intelligence, College of Engineering and Technology, School of Computing, SRMIST, Kattankulathur, Chennai, Tamil Nadu, India. Chennai -----</p>
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(57) Abstract :
 ABSTRACT SECURITY FOR ONLINE BANKING AND TRANSACTIONS The internet has played a key role in changing how we interact with other people and how we do business today. As a result of the internet, electronic commerce has emerged, allowing business to more effectively interact with their customers and other corporations inside and outside their industries. One industry that is using this new communication channel to reach its customers is the banking industry. The e-banking system addresses several emerging trends: customer’s demand for anytime, anywhere service, product time-to-market imperatives and increasingly complex back-office integration challenges. The challenges that oppose electronic banking are concerns of security and privacy of information. This paper will first discuss the drivers of e- banking; secondly, it will talk about the concerns about e-banking from various perspectives. Thirdly, the security and privacy issues will also be discussed, and fourthly the attacks of e- banking with their solutions are discussed.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012317 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : CHALLENGES AND ROLE OF ENTERPRISE ARCHITECTURE MAXIMIZES ORGANIZATIONAL VALUE

(51) International classification :A61F 022800, A61K 084100, A61P 030000, G06Q 100600, G06Q 101000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT CHALLENGES AND ROLE OF ENTERPRISE ARCHITECTURE MAXIMIZES ORGANIZATIONAL VALUE

Today, as organizations constantly adjust their activities to meet ever-changing circumstances, continuous business transformation is taking place. However, planning and steering this transformation can be a daunting task as complexity has been built into the organization over the years. Enterprise Architecture (EA) has been widely adapted as a planning and governance approach to manage the complexity and constant change, and to align the organization toward a common goal. This article studies the EA benefit-realization process by clarifying how EA benefits are realized. Specifically, the focus is on the strategies, resources, and practices which the EA benefits stem from. The findings, derived from an in-depth case study, show that the EA benefit-realization process constitutes a long, intertwined chain of activities. Organizations benefit from EA through various means: from the initiation, when comprehensive understanding starts to form, until years later, when measurable outcomes such as cost savings materialize. Suggestions on what to incorporate into EA programs are presented.

No. of Pages : 13 No. of Claims : 8

(54) Title of the invention : A KIND OF ENCRYPTING EMOTION RECOGNIZATION FRAMEWORK BASED ON DEEP LEARNING

(51) International classification :B25J 091600, G06F 095400, G06N 030400, G06N 030800, H02J 030000

(86) International Application No :PCT// /

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

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(57) Abstract :

[1] A method and system for recognising emotions based on deep learning are provided by the invention. The system is composed of a face image acquisition component, a deep learning-based facial expression identification component, and a deep learning-based facial expression early warning component. Employees' facial images are collected at each time they punch in, processed using a deep learning algorithm-based facial expression analysis algorithm, and compared to historical emotions; if there is a significant deviation, the system notifies the appropriate people. Using the current invention's deep learning-based emotion recognition method and system, the deep learning algorithm is used to analyse employees' emotions, allowing for more in-depth forms of humane support to be given.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : IoT ENABLED SMART CURTAIN SYSTEM

(51) International classification :A47H 010400, A47H 050200, A47H 050320, G01V 082000, H04L 671200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The IoT-enabled smart curtain system is an innovative solution that provides enhanced convenience and energy efficiency for homeowners. The system uses a motorized track and weightless curtains made from lightweight fabrics to enable users to open and close their curtains remotely using a mobile application. The system is equipped with sensors that detect environmental conditions, such as light levels, temperature, and humidity, and adjust the curtains automatically to provide maximum comfort and energy efficiency. The system also provides feedback to the user through the mobile application, enabling them to set custom schedules and events based on their preferences. The IoT-enabled smart curtain system is an excellent choice for homeowners who want to enhance the aesthetic appeal of their home while enjoying the benefits of a motorized track system for opening and closing their curtains.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012380 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : REALIZATION OF A HIGHLY SENSITIVE OPTICAL BIOSENSOR FOR THE DETECTION OF VARIOUS CANCER BIOMARKERS

(51) International classification :G01N 216400, G01N 217700, G01N 335430, G01N 335530, G01N 335740
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

In this work, an investigation of a super-sensitive optical biosensor was carried out for the early screening of several types of cancer. Here, the sensing analyte is considered as various malignant cells like HeLa, Jurkat, PC12, and MCF7. The injected high-order Bessel-Gauss beam considerably improves sensing efficiency by triggering numerous higher-order modes with no complicated fabrication process, which is an exciting characteristic of our research. Based on obtained result, the suggested sensor responded with an incredible sensitivity of 848.5 dB/RIU at a wavelength of 1550 nm, demonstrating a 4.05-fold improvement in sensitivity over the conventional sensor. Further, the results were corroborated with a wave-optic based Beam propagation method in Lumerical Mode solver. Due to this higher order mode-induced sensitivity, the proposed sensor can detect cancerous cell with a very fine resolution of 1.17×10^{-5} RIU. Thus, our sensing approach opens new pathways in the early diagnosis of cancer.

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012444 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An Anticancer Drug Composition Based on Herbal Methanolic Extract of Tabebuia rosea

(51) International classification :A61K 089789, A61K 361850, A61K 365600, A61M 110400, A61P 350000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Disclosed is a method (100) of preparing extract of Tabebuia rosea having pharmacological properties, the method (100) includes selecting (102) one or more medicinal plants having one or more pharmacological properties, collecting (104) the one or more selected medicinal plants, drying (106) the collected one or more medicinal plants in a shade, grinding (108) the dried one or more medicinal plants to form a coarse, extracting (110) the ground one or more medicinal plant powder, and preparing (112) the extract of the one or more medicinal plants by separating solvent by way of distillation.

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012448 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : HEALTH MONITORING FACE MASK

(51) International classification :A41D 131100, A61B 050000, A61B 050205, A61B 051100, A61M 160600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT HEALTH MONITORING FACE MASK The present disclosure relates to a health monitoring face mask (100) having at least three gas sensors (102) to detect different toxic gases present in the environment; a body temperature sensor (104) to monitor body temperature of a user; at least two elastic strings (106A, 106B) arranged in a parallel configuration and configured to go around a head of the user during usage; a health monitoring sensor (108) housed in a clip-on housing of a first elastic string (106A) out of the at least two elastic strings (106A, 106B) and configured to measure heartbeats per minute and the blood saturation level of the user; and a casing formed on a second elastic string (106B) out of the at least two elastic strings (106A, 106B) for housing a microcontroller and a battery. The microcontroller is configured to receive their respective sensed data and transmit the same to a companion mobile application over a short-range wireless network.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012471 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN IOT BASED SECURITY SYSTEM FOR BUILDINGS

(51) International classification :G06Q 501000, G08B 131860, G08B 131960, G08B 251000, H04W 841800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

[030] The present invention to internet based home security system that alerts users' about risks involved with home like floods or water leakage, robbery and fire anywhere, anytime. The system can also be implemented in office buildings, hotels, shopping complexes and malls. The system consists of a water-level detection, abnormal sound, motion and temperature (due to fire) detection system using various sensors. When the security system notices that the water level on the floor has grown unusually, it sounds an alarm for rising water levels and alerts its remote monitoring station. When it detects the entry of any unauthorized individual through anomalous motion or sounds, the system sounds an intrusion alert and notifies its remote monitoring station. When the system notices smoke or an unusual temperature rise, it sounds a fire alarm and alerts its remote monitoring station. The security system notifies owners via a GSM module-based application. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : MITIGATION OF EDFA TRANSIENT DISTORTIONS IN OPTICAL COMMUNICATION NETWORKS

(51) International classification :H04B 101120, H04B 102507, H04B 102543, H04B 102960, H04B 106100

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 MITIGATION OF EDFA TRANSIENT DISTORTIONS IN OPTICAL COMMUNICATION NETWORKS Disclosed is a method and a system for transmitting signals over an optically amplified fiber link by receiving a plurality of input signals to be transmitted from a sender to a receiver, wherein the plurality of input signals are transmitted over an optically amplified fiber link, wherein the optically amplified fiber link comprises an erbium doped fiber amplifier (EDFA) configured to amplify the plurality of input signals accounting for attenuation losses during transmission, and wherein the plurality of input signals comprise low frequency digital signals along with either RF signals or high frequency digital signals, and suppressing transients introduced by the EDFA by maintaining a constant power at the EDFA input while amplifying the plurality of input signals, and wherein during the amplification of the plurality of input signals, the low frequency digital signals have a time period comparable to the meta-stable state lifetime of erbium ions in the EDFA.

No. of Pages : 43 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012477 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATED VOTER LIST ANALYSIS AND BOOTH MANAGEMENT

(51) International classification :G03B 175300, G06F 075330, G07C 130000, G10H 013600, H03K 192300
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses systems and methods for analysis of voter data from voter lists based on various parameters. Further, the present disclosure teaches then determination of other parameters for analysis wherein the other parameters are not present in the voter list. The teachings of the present disclosure enables users to have a better understanding of the voters because of the insights and results from the analysis. Further the users can also update various metrics related to the voters as well, for their personal purposes as well.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : FINANCIAL ANALYSIS IMPACT ON MANAGEMENT PERFORMANCE IN THE LEADING LOGISTICS INDUSTRY

<p>(51) International classification :G06Q 100400, G06Q 100600, G06Q 100800, G06Q 400000, G06Q 400400</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. S. BHARATHI VASU Address of Applicant :PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD., KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ---</p> <p>-----</p> <p>2)Dr. YAMUNA.D 3)Mr. D. DIVAKAR 4)Dr. B. SAMBATH KUMAR 5)Dr. S. KRISHNAKUMARI 6)Mr. S. PRAVEEN 7)D. BHAVANI 8)Dr. D.YUVARAJ Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S. BHARATHI VASU Address of Applicant :PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD., KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 -----</p> <p>2)Dr. YAMUNA.D Address of Applicant :ASSISTANT PROFESSOR SCHOOL OF MANAGEMENT STUDIES SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) JEPPIAAR NAGAR, RAJIV GANDHI SALAI, SATHYABAMA COLLEGE ROAD, SEMMANCHERI, KANCHIPURAM DISTRICT CHENNAI - 600 119. TAMILNADU, INDIA. -----</p> <p>3)Mr. D. DIVAKAR Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD., KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ---</p> <p>-----</p> <p>4)Dr. B. SAMBATH KUMAR Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES cum HEAD TRAINING & PLACEMENT ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD., KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 -----</p> <p>5)Dr. S. KRISHNAKUMARI Address of Applicant :ASSISTANT PROFESSOR SCHOOL OF MANAGEMENT STUDIES SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) JEPPIAAR NAGAR, RAJIV GANDHI SALAI, SATHYABAMA COLLEGE ROAD, SEMMANCHERI, KANCHIPURAM DISTRICT CHENNAI - 600 119. TAMILNADU, INDIA. -----</p> <p>6)Mr. S. PRAVEEN Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD., KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ---</p> <p>-----</p> <p>7)D. BHAVANI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD., KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ---</p> <p>-----</p> <p>8)Dr. D.YUVARAJ Address of Applicant :PROFESSOR & HEAD DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD., KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ---</p> <p>-----</p>
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(57) Abstract : ABSTRACT FINANCIAL ANALYSIS IMPACT ON MANAGEMENT PERFORMANCE IN THE LEADING LOGISTICS INDUSTRY The development of global trade relies upon the operations business to move items, data, funds, innovation and HR along the inventory network. The ongoing circumstance during the pandemic depends on the coordinated factors industry especially in the messenger, package and expedited specialist organizations to convey day-to-day fundamentals. Item customization, client interest, mechanical complexity, danger of new contestants, line conclusion, consistence to Coronavirus guidelines and worldwide financial emergency have taken the coordinated factors industry by storm. For the sustainment and development of these organizations, key direction will happen. A gigantic determinant of these choices is the monetary effectiveness of the organizations. Consequently, this paper plans to decide the effectiveness of the strategies organizations in Malaysia by dissecting their monetary exhibitions utilizing current proportion, obligation to resources proportion, obligation to value proportion, profit per share, return on resources and return on value with information envelopment examination model. The aftereffects of this investigation discovered that five organizations, COMPLET, GDEX, MISC, SURIA and WPRTS are effective. This study fills the exploration hole by deciding the effectiveness scores of these organizations and proposing likely upgrades for wasteful organizations to improve and advance their monetary positions.

No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : Automatic smart health care system to monitor and predict all types of Lung disease and Lung Cancer for good Health care Management using image processing, Cloud and Machine learning Algorithms

<p>(51) International classification :A61P 030400, A61P 110000, A61P 150000, A61P 350000, A61P 350200</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. R Hema Address of Applicant :Associate Professor, Department of ECE, Madha Engineering College, Madha Nagar, Kundrathur, Kanchipuram , Chennai 69, India -----</p> <p>2)Dr. Sunayana Kundan Shivthare Address of Applicant :Associate Professor, Department of Science and Computer Science, MIT Arts, Commerce and Science College, Alandi, Pune, Maharashtra, India -----</p> <p>3)Anupama Alagannawar Address of Applicant :Assistant Professor, Department of Science and Computer Science, MIT Arts, Commerce and Science College, Alandi, Pune, Maharashtra, India -----</p> <p>4)Dr Pasupathi P Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Sri Vidhya Group of Institutions, Sivakasi Main road, Kumaralinga Puram, Virthunagar, Tamilnadu, India -----</p> <p>5)Yashi Bajpai Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Invertis University, Bareilly, Invertis Village, Bareilly-Lucknow National Highway, NH-24, Bareilly, 243122, Uttar Pradesh, India -----</p> <p>6)Burhanoddin Akram Hakim Address of Applicant :Assistant Professor, Department of M. Sc. Tech (IMWCA), Dr. D. Y. Patil Art's, commerce, Science College, Pimpr, Pune, Maharashtra, India -----</p> <p>7)Dr. Shantilal Singune Address of Applicant :Professor, Institute of Pharmaceutical Sciences, SAGE University, Indore, Madhya Pradesh, India -----</p> <p>8)Mrs. S. Jothimani Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Bannari Amman Institute of Technology, Sathyamangalam,638401, Erode, Tamilnadu, India -----</p> <p>9)Dr. Krishna Moorthy.V Address of Applicant :Physics Teacher Department of Physics, Indian Public School, S. S. kulam, Coimbatore, Tamilnadu, India -----</p> <p>10)Anupam Jaiswal Address of Applicant :Associate Professor, Department of Pharmacy, Gyan Ganga Institute of Technology and Science, Jabalpur, Madhya Pradesh, India -----</p>
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(57) Abstract :

Automatic smart health care system to monitor and predict all types of Lung disease and Lung Cancer for good Health care Management using image processing, Cloud and Machine learning Algorithms Abstract: Using a powerful technique known as "machine learning," IoT device data can be transformed into a treasure trove of knowledge (ML). These hybrid solutions are useful in schools, boardrooms, hospitals, and fortifications, where making wiser decisions is always of the utmost importance. This is because each of these fields has its own set of challenges and advantages. In the Internet of Things, machine learning can be used to uncover hidden patterns in enormous amounts of data. This facilitates the development of more precise prediction and recommendation systems. The healthcare business has aggressively adopted the Internet of Things (IoT) and machine learning. Hence, automated methods have been developed to collect medical data, predict disease diagnoses, and, most importantly, monitor patients in real time. When applied to distinct datasets, different machine learning algorithms produce diverse and often unexpected results. Due to the unpredictability of future events, this may have an effect on the entire system. Clinical decision-making is significantly influenced by the degree to which actual results depart from expectations. Thus, it is essential to comprehend the numerous machine learning techniques utilised by the healthcare industry to manage IoT data. This article presents an overview of well-known machine learning (ML) classification and prediction algorithms, along with examples of their application in the healthcare industry. This study aims to provide an overview of the different ML algorithms already in use and how they might be applied to IoT medical data. We conducted significant research and realised that diverse techniques to machine learning prediction each have their own problems. Depending on the type of Internet of Things information used, different approaches must be implemented to accurately predict crucial health data. In addition, the essay addresses how machine learning and the Internet of Things (IoT) could be utilised to predict future developments in healthcare service delivery. Throughout the previous few decades, technical and artificial intelligence breakthroughs have had a profound impact on a number of aspects of our daily lives, including healthcare. There are a variety of subfields within the field of e-health. This category includes technologies such as wearables, smart inhalers, handheld electronic spirometers, digital stethoscopes, and clinical decision support systems. E-health has been shown to enhance patient satisfaction with their care, boost medication adherence, and aid doctors in detecting the early progression of chronic pulmonary disease. These benefits have been repeatedly established. This study will assess not only the current significance of e-health procedures and technologies in respiratory medicine, but also their potential future significance. In this manner, we strive to present our readers with credible and timely evidence.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : Detection of fake news using machine learning algorithms

(51) International classification :G06K 096200, G06N 030400, G06N 030800, G06N 200000, G06N 202000

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Detection of fake news using machine learning algorithms Abstract: In recent years, the volume of data transferred online has expanded dramatically. The Internet has supplanted newspapers and magazines as the most effective means to acquire new skills. False information can cause a great deal of issues in society, thus it is crucial to assess the veracity of the information you find on the internet. False information has the potential to harm a big number of people and provoke disputes and other conflicts. This study examines the use of machine learning classifiers and natural language processing to judge the veracity of news articles. We generate feature vectors using the TF-IDF vectorizer tool. We are considering a variety of approaches to organise news items to verify their veracity.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012485 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A METHOD FOR ENZYME MEDIATED GREEN SYNTHESIS OF ZINC OXIDE NANOPARTICLES

(51) International classification :A61K 082700, A61K 086600, A61K 089900, C01G 090200, C08K 032200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

[040] The present invention discloses the leaf of Ipomoea pes-caprae medicinal plant in the extraction of enzymes present in the leaf and green synthesis of zinc oxide nanoparticles (ZnO NPs) from the enzymes extracted and evaluating antimicrobial, antioxidant and anti-cancer potential of nanoparticles. In the present invention, 14 bioactive compounds have been identified by GC-MS. The presence of various bioactive compounds in Ipomea pes-caprae leaf enzyme proved its biological activities of the compounds and hence its pharmaceutical importance. The bioactive compounds like indoles present in the enzyme extract which possessed detoxifying property also which boosts DNA repair in cells and appears to block the growth of cancer cells. Moreover, the remaining bioactive components plays a chemo-protective role against cancer. However, further studies will require finding its bioactivity and toxicity profile. Accompanied Drawing [FIG. 1-8]

No. of Pages : 29 No. of Claims : 7

(54) Title of the invention : The Retailing Investment on Stock Market in India: An Assessment Model

(51) International classification :A61K 367400, G06Q 100800, G06Q 300200, G06Q 400400, G06Q 400600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

Aim/Purpose:- The aim of the present invention relates to investigate the mediating role of investors awareness with respect to facilitating factors of stock market investment and associated benefits. There are many independent factors like: investor's savings, expenses and knowledge over stock market investment and predicting the growth rate of stock are the essential aspects of stock market investments. Findings:- The outcome of the research witnessed from the literature that the direct and in-direct effect may show significant relationship and the mediating role of investor's awareness plays a crucial role to enhance knowledge of individual investors for maximum returns. Research Methodology/Approach/Design:- The research can be better understood with the help of primary data sources after all developing a structured questionnaire applying both descriptive and inferential statistics. The model can be developed using structural equation modeling algorithm. Novelty:- The developed model which is new with three different constructs (the facilitating factors to invest on stock market followed by the investors awareness on stock market and the associated benefits). Generalizability:- The outcome of the research can be generalized under any phenomenon where need arises to assess the stock market investment based on investors awareness. Social Impact:- The invention will be benefited to study the factors which facilitates to create knowledge over stock market investment in India. Therefore, the model will give complete knowledge over the independent and influencing factors of stock market investment in India

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012526 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : FOREIGN INVESTMENTS AND THEIR IMPACT ON THE LOCAL ECONOMY

(51) International classification :A01K 670200, A61B 172210, B27D 011000, B27M 033400, G06Q 400600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT FOREIGN INVESTMENTS AND THEIR IMPACT ON THE LOCAL ECONOMY This invention focuses on the linkages occurring between UK service multinationals and their local suppliers in China and Korea. We examine both backward and forward linkages and the influences on their formation. We also consider the effects of linkage formation on domestic firms. Data collection was undertaken over a three year period whereby qualitative in-depth interviews were carried out with senior managers in the UK headquarter, the subsidiary and the 'linked' local firm in order to facilitate a multi-perspective approach to examining this topic. Results indicate that linkages do in fact exist in the service sector contrary to early belief and despite the majority of previous studies choosing to focus on manufacturing. The main factors which facilitate linkage formation in the service sector were found to be subsidiary related variables, mainly the mode of entry into the local market, subsidiary autonomy, level of embeddedness and subsidiary role. It was also found that government regulation and policy had some impact on the formation of linkages. Over time linkages were generally deepened and the impact on local firms was found to be positive with increased employment, productivity and significant upgrading of skills and competencies. The key contribution of this paper is to extend the literature on linkages to consider services whilst developing a conceptual framework in this area. Overall, our study confirms the extreme importance of the subsidiary in linkage formation and also how the externalities occurring from linkage formation in the service sector may benefit local firms and subsequently aid local economic development as a whole

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012528 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN IOT BASED AGRICULTURAL ENVIRONMENTAL APPROACH BASED ON BIG DATA ANALYTICS WITH CONSTRAINED MONITORING

(51) International classification :G06F 169535, G06Q 100600, G06Q 500200, G06T 070000, H04L 671200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention discloses an IoT based agricultural environmental parameter big data analytics with constrained monitoring. In the present invention, a means for collecting information about teachers from multiple schools and figuring out if a teacher is acquainted with a pupil or if they share pals; further, letting the student pick their own teacher once they've taken a personality test to identify their preferred method of learning. Further, a user computer with a processor, display, user input, and computer-readable media, wherein the user computer is programmed to display user interface information received over a network connection, wherein the user computer is programmed to display video data of a procedure and display information on tools used in the video, wherein the user computer is operable to transmit a request by a user for a one-on-one communication between the user and a vendor of a tool used in the video.

Accompanied Drawing [FIGS. 1-2]

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012529 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A HYBRID MODEL FOR BRAIN TUMOR DETECTION USING DEEP LEARNING ALGORITHMS

(51) International classification :A61B 050000, C12Q 016886, G06N 030800, G06T 070000, G16B 402000
(86) International Application No :NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :

Medical Images are most widely done by the various image processing approaches. Image processing is used to analyse the various abnormal tissues based on given input images. Deep learning (DL) is one of the fast-growing fields in the computer science and specifically in medical imaging analysis. Sometimes tumors may convert into cancer cells based on the stage of the tumor. In this paper, a Deep-hyper integral segmentation approach (D-HISA) is introduced to detect cancerous tumors and non-cancerous tumors in depth by using 3D-images. Detecting cancerous cells in the tumors may reduce the life threat to the affected persons. The agent based reinforcement classification (ABRC) is used to classify the Alzheimer's disease (AD) and cancerous and non-cancerous cells based on the abnormalities present in the MRI images. Two publically available datasets are selected such as MRI images and AD-affected MRI images. Finally the performance is analysed by showing the cancerous cells and severity in tumors in terms accuracy, f1-score, sensitivity, dice similarity score, and specificity.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012530 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : METHOD AND SYSTEM FOR OPTIMIZED CONTROL OF DC SERVO MOTORS USING PID AND FUZZY PD CONTROLLERS

<p>(51) International classification :G03F 072000, G05B 130200, H02P 270800, H04L 126600, H04W 162800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. D. Sengeni Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, CK College of Engineering and Technology, Jayaram Nagar, Chellangkuppam, Cuddalore - 607003 ----- 2)Ms. N S Madhuri 3)Ms.Divya.C.S 4)Mr.P.Siva Subramanian 5)Dr.C.S.Sundar Ganesh 6)Dr.Sekar K 7)C. Jeeva Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. D. Sengeni Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, CK College of Engineering and Technology, Jayaram Nagar, Chellangkuppam, Cuddalore - 607003 ----- 2)Ms. N S Madhuri Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Sree Vidyanikethan Engineering College, A.Rangampet, Tirupati - 517102 ----- 3)Ms.Divya.C.S Address of Applicant :Research Scholar, Department of Science and Humanities, Kongu Engineering College, Erode ----- 4)Mr.P.Siva Subramanian Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, SSM Institute of Engineering and Technology, Dindigul - 624002 ----- 5)Dr.C.S.Sundar Ganesh Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Karpagam College of Engineering, Myleripalayam, Coimbatore -641032 ----- 6)Dr.Sekar K Address of Applicant :Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore 641032 ----- 7)C. Jeeva Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Sri Sairam Engineering College, Chennai, Tamil Nadu 602109 -----</p>
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(57) Abstract :

The present invention relates to a system for controlling a DC servo motor. The system includes a mathematical model of the motor system, a PID controller, a Fuzzy PD controller, and a microcontroller or digital signal processor for implementing the controller. The controller is tuned using simulation and optimization techniques to achieve optimal performance, and is able to provide improved accuracy, stability, and robustness compared to traditional control methods.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : Design system of IoT-driven Smart Helmet for Mining Workers

(51) International classification :A42B 030400, A42B 031400, A42B 033000, D04B 156600, D04B 370200

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A smart helmet has been developed which provide safety for the working people. We have strategized a way to make it safer by developing a technologically new product called “SMART HELMET”. The scope of the project is to modify the helmet without changing its physical structure. The added weight had to be kept to a minimum. A mining helmet needs to be modified to improve miner safety by adding intelligence to the helmet. This helmet comes with many sensors for various detection and analysis. Firstly, hazardous conditions such as Temperature and humidity are identified and sent to the control station via Wireless transmitters for continuous monitoring. Secondly the unpredicted hazardous gases like CO, CH4, LPG are detected using gas sensors. Whenever the poisonous gas is detected, the sensor senses and gives a signal to the control room. RF (Radio Frequency) transmitter and receiver is also Provided for easy tracking of miner’s exact mining location, and it is sent to the control room. Panic switch is manually operated by the miner to seek help from the control room in-case of highly emergency conditions. So, we can serve the workers with the safety helmet that helps them from high risk factor.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : CONTACTLESS HEALTHCARE MONITORING SYSTEMS USING IOT

(51) International classification :A61B 050000, G16H 106000, G16H 406700, G16Y 401000, H04W 120600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Social distancing and quarantine situations like covid-19 , the pandemic arises where there will not be contact between patient and doctor. Luckily we use the concept of IoT to track the patients health even isolated. The Internet of Things is now widely regarded as one of the most practical solutions for remote value tracking, especially in the field of health monitoring. In today's world, the Internet of Things (IoT) is transforming the technological architecture. IoT has allowed us to implement various complex systems such as smart home appliances, smart traffic control systems, smart office systems, smart climate, smart vehicles, and smart temperature control systems in very little space by facilitating effortless interaction among various modules. One of the most well-known IoT implementations is health management systems. It allows for the safe storage of individual health-related data in the cloud, the reduction of hospital stays for routine tests, and, most importantly, the monitoring and diagnosis of disease by any doctor. Many different styles and patterns have also been introduced to use IoT to track a patient's health. An IoT-based health monitoring system without contact of patient and doctor was developed. The device used sensors to measure body temperature, pulse rate, and room humidity and temperature, which were also displayed on an LCD. These sensor values are then wirelessly transmitted to a web application. These data are then sent to an IoT platform-enabled belonging to an approved individual. The doctor then diagnoses the illness and the patient's state of health based on the findings and treatment of the patients will be prescribed accordingly. The new groundbreaking solutions developed for IoT-based smart health management systems have been explored, along with their benefits and drawbacks. The aim of this study is to identify typical architecture and deployment trends for intelligent IoT-based smart health monitoring devices for patient.

No. of Pages : 9 No. of Claims : 2

(54) Title of the invention : IMPACT AND ANALYSIS OF GREEN CONCEPT IN MECHANICAL DESIGN AND MANUFACTURING INDUSTRY

<p>(51) International classification :G06F 301700, G06Q 100600, G06Q 500400, H02J 070000, H02J 070200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. B. Babu Address of Applicant :Associate Professor, Department of Mechanical Engineering, Amrita college of Engineering and Technology, Amritagiri, Erachakulam Post, Erachakulam, Nagarcoil - 629901, Kaniyakumari, Tamilnadu, India Nagarcoil -----</p> <p>2)Dr. S. Raja</p> <p>3)Dr. R. Rajeswari</p> <p>4)Dr. P. Ebby Darney</p> <p>5)Mr. S. Suriya Prakash</p> <p>6)Mr. K. Mathavan Pillai</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. B. Babu Address of Applicant :Associate Professor, Department of Mechanical Engineering, Amrita college of Engineering and Technology, Amritagiri, Erachakulam Post, Erachakulam, Nagarcoil - 629901, Kaniyakumari, Tamilnadu, India Nagarcoil -----</p> <p>2)Dr. S. Raja Address of Applicant :Associate Professor, Department of Mathematics, Amrita college of Engineering and Technology, Amritagiri, Erachakulam Post, Erachakulam, Nagarcoil - 629901, Kaniyakumari, Tamilnadu, India Nagarcoil -----</p> <p>3)Dr. R. Rajeswari Address of Applicant :Assistant Professor, Department of Mathematics, A.P.C.Mahalakshmi college for woman, Thalamuthu Nagar, Sankaraperi, Ettayapura Road, Thoothukudi - 628002, Tamilnadu, India Thoothukudi -----</p> <p>4)Dr. P. Ebby Darney Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Raja Rajeswari College of Engineering, Ramohallicross, Kumbalgodu, Mysore Road, Bengaluru - 560074, Karnataka, India Bengaluru -----</p> <p>5)Mr. S. Suriya Prakash Address of Applicant :Assistant Professor, Department of Mathematics, Amrita college of Engineering and Technology, Amritagiri, Erachakulam Post, Erachakulam, Nagarcoil - 629901, Kaniyakumari, Tamilnadu, India Nagarcoil -----</p> <p>6)Mr. K. Mathavan Pillai Address of Applicant :Assistant Professor, Department of Mathematics, Francis Xavier Engineering College, Bye Pass Road, Vannarpet, Tirunelveli - 627003, Tamilnadu, India Tirunelveli -----</p>
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(57) Abstract :

With the development of productive forces, the relationship between human and nature is becoming tight increasingly, especially environmental pollution and resource consumption that comes from equipment manufacturing industry mainly. Green development concept is a new concept which can solve the current ecological environment. The philosophical foundation and theoretical basis of green idea are expounded through the study of scientific development and green concept. The difference between the traditional design and the green design is analyzed; the meaning and content of the mechanical design for green concept are discussed. And the evaluation method of green design is discussed too. The significance of green development concept in the mechanical design and manufacturing science is pinpointed clearly. The results show that the implementation of green design under the mechanical design, from the source of pollution control to achieve green manufacturing, is the only way to achieve sustainable development.

No. of Pages : 6 No. of Claims : 6

(54) Title of the invention : COTTONMITRA – A MAJOR FUNGAL FOLIAR DISEASE DETECTION AND CLASSIFICATION TECHNIQUE IN COTTON LEAF

(51) International classification :A61B 050550, G06K 096200, G06N 030400, G06N 030800, G06T 070000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

Crop cultivation and farming is a major and significant occupation in India and across the globe. The cultivation and farming heavily depends upon the fertility of soil, environmental and climatic conditions, and variety of nurturing techniques adopted by farmers of different regions. This results in fluctuations in the overall yield and imposes restrictions on the economic conditions of the Nation. Such fluctuations in the overall yield may occur due to inorganic farming, spraying of pesticides, in addition to geographical diseases found on different plants at early stage of growth. Cotton being one of the major commercial crops in agriculture plays an important role in deciding the economy of the Nation. Most of the cotton plant diseases are caused by fungi, bacteria, and viruses. The fundamental challenge is to safeguard the cotton crop yield from plant diseases. The proposed invention presents a product for detection, effective identification and classification of major fungal foliar maladies in cotton leaf at an early stage using Image Processing Technique. The proposed system uses features such as Image Contrast, Pixel Correlation and Energy, Image Homogeneity, Inverse Difference Moment (IDM), Mean, Standard Deviation, Entropy, Root Mean Square (RMS), Variance, Smoothness, Kurtosis and Skewness in the effective identification of Major leaf diseases of Cotton at an early stage. Disease detection involves steps like image acquisition, image pre-processing, image segmentation, feature extraction and classification. Five different types of diseases classified are Bacterial Blight, Cercospora, Alternaria, Fusarium and Verticillium. Implementation is carried out using MATLAB's Image Processing and Bioinformatics Tool Boxes. The results shows that SVM could effectively detect the disease spots and classify the given leaf image with an accuracy of 98.30%. Further, the system has been implemented on hardware platform to facilitate the working of the proposed prototype without the use of computing systems (Laptop / Desktop), making it a standalone embedded product. The invention "COTTONMITRA" has been developed with the encompassment of Raspberry pi processor, a Raspbian Operating System with a Matlab Server and a Camera cape.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012565 A

(19) INDIA

(22) Date of filing of Application :24/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A MECHANISM FOR REDUCING BUILD VOLUME OF A POWDER BED FUSION APPARATUS AND METHOD THEREOF

(51) International classification :B22F 120000, B33Y 100000, B33Y 300000, B33Y 400000, B33Y 500200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

The present disclosure provides a mechanism for reducing build volume of a powder bed fusion apparatus. The mechanism comprises a cover plate (119) mounted on a base plate (101) of the powder bed fusion apparatus, a riser block (111) fixed to a primary heater plate (105). A secondary build plate (117) is secured to the riser block (111). A slot(121) is provided in a predefined shape on the cover plate (119). A housing(113) is fixed on the cover plate extending towards the primary heater plate for enclosing the riser block and the secondary build plate, wherein the housing(113) is aligned with the slot. The riser block (113) includes the secondary build plate (117) sliding relative to the housing (113) and the secondary build plate is positioned in the housing for receiving powder for manufacturing a part, thereby reducing the build volume of the powder bed fusion apparatus. Fig.1

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : IMPLEMENTATION OF SAFETY MANAGEMENT TECHNIQUES IN CIVIL ENGINEERING USING ARTIFICIAL INTELLIGENCE AND IOT

<p>(51) International classification :C12N 159000, G06N 050200, G06N 050400, G06N 070000, H04W 363200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr P Brightson Address of Applicant :Professor, Department of Civil Engineering, PSNCE, Melathediyoor, Palayamkottai, Tirunelveli, Tamilnadu, India. -----</p> <p>2)Dhruv Saxena 3)Akash Gupta 4)Satyam Dubey 5)Puneet Gaur 6)Dr Tarun Gehlot 7)Mohan Kandasamy 8)Pasupuleti Subrahmanya Ranjit 9)Ravindra Kumar Goliya 10)Mohd Asif Shah 11)Gourav Kalra 12)Maddireddy Sowjanya Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr P Brightson Address of Applicant :Professor, Department of Civil Engineering, PSNCE, Melathediyoor, Palayamkottai, Tirunelveli, Tamilnadu, India. -----</p> <p>2)Dhruv Saxena Address of Applicant :PhD Research Scholar Department of Civil Engineering, MNIT, Jaipur, Rajasthan. -----</p> <p>3)Akash Gupta Address of Applicant :Junior Engineer Municipal Corporation of Delhi, Roshini, North West Delhi, Pin Code- 110085, Delhi, India. -----</p> <p>4)Satyam Dubey Address of Applicant :Assistant Professor, Department of Civil Engineering, Dr.K.N. Modi Institute of Engg. and Technology, Modinagar, Ghaziabad, Uttar Pradesh. -----</p> <p>5)Puneet Gaur Address of Applicant :Structural Engineer (Freelance), 96 East Patel Nagar, Circuit House Road, Ratanada, Jodhpur, Rajasthan. -----</p> <p>6)Dr Tarun Gehlot Address of Applicant :Assistant Professor (Civil Engineering) College of Technology and Agriculture Engineering University, Jodhpur, Rajasthan. -----</p> <p>7)Mohan Kandasamy Address of Applicant :Assistant Professor/Civil, Sri Shanmugha College of Engineering and Technology, Sankari, Salem, Tamil Nadu-637304 -----</p> <p>8)Pasupuleti Subrahmanya Ranjit Address of Applicant :Professor, Department of Mechanical Engineering, Aditya Engineering College, Surampalem, Kakinada, East Godavari, Andhra Pradesh. -----</p> <p>9)Ravindra Kumar Goliya Address of Applicant :Asst Professor, Department of Civil Engineering, Jaypee University of Engineering and Technology, Guna, Madhya Pradesh, 473226 -----</p> <p>10)Mohd Asif Shah Address of Applicant :Adjunct Faculty, School of Business, Woxsen University, Kamkole, Sadasivpet, Hyderabad, Telangana, 502345, India. -----</p> <p>11)Gourav Kalra Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Finality Ventures Private Limited, MMEC, Mullana, Ambala, Haryana. -----</p> <p>12)Maddireddy Sowjanya Address of Applicant :Associate Professor, ECE, Geethanjali College of Engineering and Technology, Hyderabad, Medchal, Telangana, 501-301 -----</p>
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(57) Abstract :

Implementation of Safety Management Techniques in Civil Engineering using Artificial intelligence and IoT, wherein the system comprises.The method of capturing a plurality of images of the structure using a small format digital camera being transported by the aircraft, wherein each of the images have a ground resolution of not greater than one inch.Realizing service logicBusiness Logic is based on DAO layers, by DAO The face model packaging of component, the service logic required by completion system. e.A kind of real-time monitoring system based on RFID safety cap according to claim 1, is characterized in that described RFIDElectronic tag has unique No. ID,determining on the basis of the defined shape and the desired position and orientation of the defined shape, path data in the reference system fixed relative to the ground surface,providing a computer configured for processing the images.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012576 A

(19) INDIA

(22) Date of filing of Application :24/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ANTICANCER SELF DEFENSING NICOTINAMIDE ADENINE DINUCLEOTIDE

(51) International classification :A61K 086700, A61K 314545, A61K 317084, A61P 350000, C07H 192070
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No: NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ANTICANCER SELF DEFENSING NICOTINAMIDE ADENINE DINUCLEOTIDE ABSTRACT The present invention is generally directed to an herbal formulation for treating cancer. The invention specifically relates to a self-defensing Nicotinamide adenine dinucleotide molecule isolated from the flowers of ornamental tobacco plant Nicotiana glauca. The defending mechanism binds to small phospholipid phosphatidylinositol-4,5-bisphosphate. Nicotinamide adenine dinucleotide works by forming a pincer like structure that grips onto lipids present in the membrane of cancer and rips it open causing the cell to expel its contents and explode without causing damage to the normal cells. The invention discloses that the tumor cells were more susceptible to the killing of Nicotinamide adenine dinucleotide than the normal cells. The invention laid down new pathways for cancer treatment discovery and provide low-cost therapy for cancer patients.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012752 A

(19) INDIA

(22) Date of filing of Application :24/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A NOISE CANCELLATION SYSTEM AND A METHOD TO OPERATE THE SAME

(51) International classification :F01L 130000, F04D 250600, G06Q 203800, G10K 111780, H04L 651101
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A noise cancellation system (100) is provided. The system includes a sound receiver module (102) positioned at a source (104) of external noise entry to receive a noise from an external uncontrolled noise source, a sound sensor (106) for recording the received noise, a noise model builder module (108) builds a plurality of artificial intelligence models based on a plurality of noise data definitions pre-stored in a database (110), an analysis module (114) classifies and analyse the recorded noise by using the plurality of artificial intelligence models and determine an intensity of the recorded noise, a sound wave releaser module (116) releases a series of counter sound waves and an amplitude, based on the amplitude of the noise and a user interface (118) detects a prolonged intermittent noise and enable a user to control the intensity of the noise cancellation and notifies noise signifying an emergency to the user. FIG. 1

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012756 A

(19) INDIA

(22) Date of filing of Application :24/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN IMPROVED TODDLER MONITORING DEVICE AND SYSTEM THEREOF

(51) International classification :A61B 050000, A61M 110000, B28D 010400, E04F 150200, G01G 110000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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PIN – 688 532, INDIA -----

(57) Abstract :

The present invention relates to identifying and monitoring the toddlers using depth cameras and obtaining information of the toddler in a 3D space using a computing device by AI methods and other mathematical calculations. The system and method involves a capturing device like a stereo camera that captures the RGB and depth dimension which uses a GPU enabled computing device to do AI and other mathematical analysis on the RGB and depth image to get the information about the targeted world for mapping the 3D space, categorising the human presence to adult, toddler or baby , child and locating them. The present invention also aims to check whether the toddler is alone, toddler is at an unsafe height, toddler is touching or near a predefined unsafe area, toddler has fallen, toddler is crying, toddler is choking, the baby is awake from sleep etc and alerting the caretakers. The system and method also identifies behavioural patterns like sleep, eating, playing etc and making reports on anomalies and presenting to the client. The system and method makes shareable videos and stores the videos for future uses. The system also helps to share the alerts, videos and video snippets via the internet to client devices.

No. of Pages : 40 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012767 A

(19) INDIA

(22) Date of filing of Application :24/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : METHODS AND SYSTEMS FOR AUTOMATED PLACEMENT AND ARRANGEMENT OF VIRTUAL OBJECTS IN AUGMENTED REALITY SCENE

(51) International classification :G02B 270100, G06F 030100, G06T 071300, G06T 077300, G06T 190000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Methods and systems for automated placement and arrangement of virtual objects in augmented reality scenes are described. The method includes receiving environmental image data associated with an environment captured using a user device (104) of a user (102). The environment includes a plurality of real-world objects. The method includes determining object models mapped with one or more virtual objects corresponding to real-world objects based, at least in part, on environmental image data and location of user (102). The method includes receiving a user input from the user device (104) for arranging the virtual objects in an augmented reality scene of the environment. The method includes arranging the one or more virtual objects based, at least in part, on a particular template, each virtual object with a particular object model placed at a specific location point in the augmented reality scene. The method further includes storing metadata associated with augmented reality scenes in a database (112).

No. of Pages : 70 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012832 A

(19) INDIA

(22) Date of filing of Application :24/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Digital Scribe for the Disabled

(51) International classification :C03B 330330, G10L 152600, G11B 070000, H01L 217800, H01L 235800
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The digital scribe web application that will do the work of a human scribe during an examination. The system has a bilateral login service for the examiner and examinee. It gets examination questions from the examiner to store before the exam. These questions are then fetched, converted into audio, and dictated to the examinee. A listening device is used to detect answers or commands from the examinee. The answers are converted into text and saved in the database under the specified question number. The examinee can interact with the system fully via voice control and ask to repeat, skip questions, review answered and unanswered questions and submit. A Web camera is used to monitor the examinee during the exam to prevent cheating or other activities.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : INTEGRATING MACHINE LEARNING TECHNIQUES ALONG WIRELESS SENSOR NETWORKS FOR PRECISION IN AGRICULTURE

<p>(51) International classification :A01B 790000, G06N 030400, G06N 050400, G06N 200000, H04W 841800</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.J.Anitha Josephine Address of Applicant :Assistant professor, Department of Artificial intelligence and Machine Learning, School of Engineering,Malla Reddy University,Maisammaguda,Dulapally, Hyderabad, Secunderabad, Telangana-500100 -----</p> <p>2)Dr. Khushal N. Pathade</p> <p>3)Vartika Shukla</p> <p>4)Dr. Anil Kumar Lamba</p> <p>5)Mr.D R K Saikanth</p> <p>6)Dr Savita Kolhe</p> <p>7)Dr.N.Mahendran</p> <p>8)SRIKANTH NALLURI</p> <p>9)Thirumurugan R</p> <p>10)Dr.A.Sasi Kumar</p> <p>11)Dr. Vijay Kumar Salvia</p> <p>12)Mohd Asif Shah</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.J.Anitha Josephine Address of Applicant :Assistant professor, Department of Artificial intelligence and Machine Learning, School of Engineering,Malla Reddy University,Maisammaguda,Dulapally, Hyderabad, Secunderabad, Telangana-500100 -----</p> <p>2)Dr. Khushal N. Pathade Address of Applicant :Assistant Professor & Head P.G. Department of Botany, Dr. R. G. Bhojar ACS College Seloo Dist. Wardha Maharashtra 442104 -----</p> <p>3)Vartika Shukla Address of Applicant :Assistant Professor Rameshwaram Institue Of Technology & Management, Lucknow, Uttar Pradesh -----</p> <p>4)Dr. Anil Kumar Lamba Address of Applicant :Professor and Head, School of Computer Science & Engineering, Geeta University, Delhi-NCR, Panipat (132145), Haryana -----</p> <p>5)Mr.D R K Saikanth Address of Applicant :PhD Scholar, Department of Agricultural Extension, College of Agriculture, Rajendranagar, PJTSAU,Hyderabad -500030, Telangana -----</p> <p>6)Dr Savita Kolhe Address of Applicant :Principal Scientist ,Department of Computer Application in Agri., ICAR-INDIAN INSTITUTE OF SOYBEAN RESEARCH , Indore, Madhya Pradesh -----</p> <p>7)Dr.N.Mahendran Address of Applicant :Associate Professor/ ECE,M.Kumarasamy College Of Engineering, Thalavapalayam, Karur-639113, Tamilnadu -----</p> <p>8)SRIKANTH NALLURI Address of Applicant :Assistant Professor/Computer Science and Engineering,BAPATLA ENGINEERING COLLEGE,BAPATLA,522102, Andhra Pradesh -----</p> <p>9)Thirumurugan R Address of Applicant :112B, ASTC Nagar, Pennagaram Main Road, Dharmapuri, Tamil Nadu -----</p> <p>10)Dr.A.Sasi Kumar Address of Applicant :Professor (Mentor-IT – Inurture Education Solutions Pvt Ltd, Bangalore), Department of Cloud Technology & Data Science, Institute of Engineering & Technology, Srinivas University, Srinivas Nagar, Mukka, Surathkal, Mangalore-574146, Dakshina Kannada District, Karnataka State, India. -----</p> <p>11)Dr. Vijay Kumar Salvia Address of Applicant :Professor Director ECE International R and D Creativity Organisation USA India, Indore-452018, Madya Pradesh -----</p> <p>12)Mohd Asif Shah Address of Applicant :Adjunct Faculty, School of Business, Woxsen University, Kamkole, Sadasivpet, Hyderabad, Telangana, 502345, India. -----</p>
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(57) Abstract :
INTEGRATING MACHINE LEARNING TECHNIQUES ALONG WIRELESS SENSOR NETWORKS FOR PRECISION IN AGRICULTURE One of the most promising technologies for some real-time applications because of its size, cost-effectiveness, and easily deployable nature. Agriculture is the most important role played in the survival of human civilization. The technological advancement in wireless communication and reduction in the size of the sensor is innovatively projected in various fields such as environmental monitoring, precision farming, health care, military, and smart home. Motes used in agriculture and challenges involved in the deployment of a wireless sensor network. Smart farming has played a major role to enhance production in the field of agriculture. The natural irrigation system is under pressure due to the growing water shortages, which are mainly caused by population growth and climate change. The change in climate affects crop production significantly, and the prediction of good harvests before harvesting. Enables the farmers as well as the government officials to take appropriate measures for the marketing and storage of crops.

No. of Pages : 16 No. of Claims : 1

(54) Title of the invention : IMPLEMENTATION OF MACHINE LEARNING AND IOT BASED TECHNIQUE FOR ACHIEVING SECURITY AND PRIVACY IN BLOCKCHAIN

<p>(51) International classification :G06N 200000, G06N 201000, G16H 106000, H04L 090600, H04L 093200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.J.Anitha Josephine Address of Applicant :Assistant professor, Department of Artificial intelligence and Machine Learning, School of Engineering, Malla Reddy University,Maisammaguda, Dulapally, Hyderabad, Telangana 500100 -----</p> <p>2)Durai Murugan A 3)Kuldeep Kumar 4)Bhoopendra dwivedy 5)Meenakshi Kandpal 6)Dr.Rupa Rani Sharma 7)Priyanka Sharma 8)Neerav Nishant 9)Dr Saleem Ahmed 10)Dr.A.Sasi Kumar 11)Dr. Vijay Kumar Salvia 12)Shanmuganathan V Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.J.Anitha Josephine Address of Applicant :Assistant professor, Department of Artificial intelligence and Machine Learning, School of Engineering, Malla Reddy University,Maisammaguda, Dulapally, Hyderabad, Telangana 500100 -----</p> <p>2)Durai Murugan A Address of Applicant :Assistant Professor / Computer Science And Business Systems, Karur, 639113, Tamil Nadu -----</p> <p>3)Kuldeep Kumar Address of Applicant :Assistant Professor, Department of Information Technology, Integrated Academy of Management and Technology, Ghaziabad, Uttar Pradesh -----</p> <p>4)Bhoopendra dwivedy Address of Applicant :Associate Professor, Department of Computer Science and Engineering G.L. Bajaj Institute of Technology & Management , Greater Noida, 201308, Uttar Pradesh -----</p> <p>5)Meenakshi Kandpal Address of Applicant :Assistant Professor, Department of CSE, Odisha University Of Technology And Research , Bhubaneswar,751029, Khurda, Odisha -----</p> <p>6)Dr.Rupa Rani Sharma Address of Applicant :Assistant Professor, Department of Mathematics , G. L. Bajaj Institute of Technology and Management, Greater Noida, Gautam Budh Nager, Uttar Pradesh -----</p> <p>7)Priyanka Sharma Address of Applicant :Assistant Professor, Department of Mathematics, Maya group of colleges,Dehradun,258001, Utrakhand -----</p> <p>8)Neerav Nishant Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, School of Engineering, Babu Banarasi Das University, Lucknow, Pincode-226028, Uttar Pradesh -----</p> <p>9)Dr Saleem Ahmed Address of Applicant :Assistant Professor, Graduate School of Computer science IIC University of Technology (IIC), Phnom Penh, Cambodia -----</p> <p>10)Dr.A.Sasi Kumar Address of Applicant :Professor (Mentor-IT – Inurture Education Solutions Pvt Ltd, Bangalore), Department of Cloud Technology & Data Science, Institute of Engineering & Technology, Srinivas University, Srinivas Nagar, Mukka, Surathkal, Mangalore-574146, Dakshina Kannada District, Karnataka State, India. -----</p> <p>11)Dr. Vijay Kumar Salvia Address of Applicant :Professor and Director, Department of ECE, Research Innovation Start Up University Regd Indore- 452018, Madhya Pradesh -----</p> <p>12)Shanmuganathan V Address of Applicant :Research Scholar, Department of Networking And Communications, School of Computing, SRM Instiute of Science and Technology, Kattankulathur - 603203, Chengalpattu, Chennai, Tamilnadu -----</p>
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(57) Abstract :
IMPLEMENTATION OF MACHINE LEARNING AND IOT BASED TECHNIQUE FOR ACHIEVING SECURITY AND PRIVACY IN BLOCKCHAIN Storing said second master key in said working key storage means as a working key. Cipher means operable in a first cipher function to decipher said first enciphered data under the control of said the working key to obtain said key encrypting key in a clear form. Encrypting the key to be transferred from said cipher means to say working key storage means to replace said second master key as the present working key. Providing a first pseudo-random number at the first station representing the operational key in enciphered form. Performing a cryptographic operation at the first station to encipher the first pseudo-random number under the control of the operational key to obtain a second pseudo-random number having a first portion and a second portion. A transmitter-receiver capable of receiving an encrypted message encrypted using a nonsecret encryption key specific to the terminal. Encryption/decryption key generator coupled to the encrypter/decrypter and adapted to generate the nonsecret and secret keys by use of a pair of large, randomly-selected prime numbers.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012840 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Smart Accessory for Allowing Partitions to a Shopping Trolley and Method Thereof

(51) International classification :B62B 031400, B62B 050600, G06Q 300600, G07F 070600, H04M 017240
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: A Smart Accessory for Allowing Partitions to a Shopping Trolley and Method Thereof The present disclosure proposes an accessory (100) for a shopping trolley that automatically divides base of the shopping trolley into multiple compartments based on accessories list. The smart accessory (100) for shopping trolleys (10) comprises a housing (102), a plurality of horizontal and vertical partition members (106a, 106b, 106c, 106d, 108a, 108b, 108c), a drive unit (110) and a controller (130). The proposed accessory (100) divides the shopping trolley into multiple compartments based on the user accessories list. The proposed accessory (100) is adaptable to any kind of the shopping trolley. The proposed accessory (100) is portable and transferable from place to place. The proposed accessory (100) requires water for uplifting the partitions of the trolley. The proposed accessory (100) enables the user to arrange on the shopping trolley based on the requirement.

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012841 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A System and Method for Detection of Brain Diseases Based on Conventional Neural Network

(51) International classification :C07K 163000, G06N 030400, G06N 030630, G06N 030800, G16H 502000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A System and Method for Detection of Brain Diseases Based on Conventional Neural Network The present disclosure proposes a system and method for detection of brain diseases based on conventional neural network (CNN) which predicts the possibility of brain disorders and detects the uncertainty thereby enhancing efficiency and accuracy in interpretation of the brain disease. The system (100) comprises a data acquisition module (102) configured to collect the dataset that possess the brain category diseases, a storage module (104) to store the collected data, a determination module (106) for determining the MRI images and image processing, a calculation module (108) for calculating the grey mass and lateralization index, a verification module (110) for normalizing a plurality CNN layers representing uncertainty, a processing module (112) for removing the images that possess uncertainty and remove discriminated plurality of CNN (convolution neural network) layers representing uncertainty by applying UE-CNN technique.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012842 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Smart Glasses for Assisting Individuals with Visual and Hearing Impairments and Method Thereof

(51) International classification :G01N 335200, G02B 270100, G06F 011600, G09B 210000, H04R 250000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: Smart Glasses for Assisting Individuals with Visual and Hearing Impairments and Method Thereof The present disclosure proposes a smart glass that assist a user by analysing his/her vision state and hearing state. The smart glass (100) for assisting individuals comprises a microphone unit (102), a speaker (104), a pair of earphones (106), a plurality of capturing units (108), a sensing unit 110, a detachable display unit (112), an adjustable lenses (113), a power source (114) and a controlling unit (116). The proposed smart glasses (100) assists visually disabled user to work as normal humans such as walking, cooking and reading. The proposed smart glasses (100) assists deaf and dumb people in communicating with other people even if the user does not understand sign language. The proposed smart glasses (100) convert multiple languages to user-known languages.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : An Efficient and Fast Perturbation Based Clustering and Ensemble Classification Framework for Privacy Preserving Databases

(51) International classification :G06F 158200, G06F 216200, G06K 096200, G16B 050000, H04W 120200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT: Title: An Efficient and Fast Perturbation Based Clustering and Ensemble Classification Framework for Privacy Preserving Databases The present disclosure proposes a system (100) for preserving privacy data mining. The system (100) for preserving privacy of databases comprises a computing device (102) having a processor (104) and a memory (106) for storing a plurality of instructions and a plurality of modules (108). The computing device (102) is in communication with an application server (118) via a network (116). The plurality of modules (108) comprises an input module (110), a processing module (112), a determination module (114) and a prediction module (115). The proposed system (100) protects the database without modifying the underlying database scheme and structured query language (SQL). The proposed system (100) generates a database that supports privacy protection without performing query-tailored vulnerability analysis. The proposed system (100) predicts the test samples using the training data.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012844 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Windshield Wiper with a Deicer and a Self-Cleaning System and Method of Operating the Same

(51) International classification :B06B 010600, B60S 010400, B60S 013800, C02F 032800, C09K 031800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :

ABSTRACT: Title: Windshield Wiper with a deicer and a Self-Cleaning System and Method of Operating the Same The present disclosure proposes a windshield wiper (100) with a deicer and a self-cleaning system. The windshield wiper (100) with a deicer and a self-cleaning system comprises a wiper blade (102) configured to reciprocate back and forth across a windshield screen (10) of a vehicle to clean the windshield screen (10). The wiper blade (102) comprises a snow transferring plate (110) to transfer snow and ice accumulated on the wiper blade (102), at least one sprayer (130) to spray the de-icing fluid (108) on the wiper blade (102) through one or more outlets of a conduit (131), thereby melting the snow around the wiper blade (102). The proposed invention cleans the accumulated snow on the wiper and melt the snow around the wiper blade simultaneously to perform self-cleaning operation to the blade.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012845 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Roof Ventilation System for Vehicles

(51) International classification :E04D 013000, E04D 131700, F24F 070200, F24F 082200, H01M 045830
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Roof Ventilation System for Vehicles The present disclosure proposes a roof ventilation system (100) for vehicles. The roof ventilation system (100) comprises a housing (102) that is attached at center of a vehicle's roof. A ventilating plate 108 is attached at top of the housing (102) through a plurality of hooks (104). The ventilating plate (108) exposes an interior of the vehicle (132) to ambient environment. The roof ventilation system (100) enables natural airflow inside the vehicle (132) without using any blower or air conditioner, while the vehicle (132) is in parked or stationary condition. The roof ventilation system (100) can direct a temperature-regulated flow of air towards occupants. The roof ventilation system (100) can provide a comfortable temperature to the user inside the vehicle (132), based on a vehicle's interior humidity level and ambient temperature.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : DEVELOPMENT OF ARTIFICIAL NEURAL NETWORK TECHNIQUES FOR FIBER REINFORCED CONCRETE

(51) International classification :G06F 215600, G06N 030200, G06N 030400, G06N 030630, G06N 030800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 DEVELOPMENT OF ARTIFICIAL NEURAL NETWORK TECHNIQUES FOR FIBER REINFORCED CONCRETE The present invention relates to development of artificial neural network techniques for fiber reinforced concrete. The aim of the present invention is to forecast the 28-day compressive strength and split tensile strength of concrete with various percentages of jute and coconut fibres mixed with quarry dust. The response surface methodology (RSM) and the artificial neural networks (ANN) methods were adopted for 3 variable process modelling (coconut fibres of 0% to 2.5%, jute fibres of 0% to 2.5% , and quarry dust of 0% to 25% by weight of cement). The RSM Box-Behnken design (BBD) method is adopted to design the experiments in the present invention. The test results showed that compressive strength of 34.6 N/mm2 was obtained for concrete with 0% jute, 0% coir, and 12.5% quarry dust. Similarly, the maximum split tensile strength of 3.8 N/mm2 was obtained for concrete with 1.25% jute fibres, 1.25% coconut fibres, and 12.5% quarry dust. Figure of abstract: FIG. 1

No. of Pages : 21 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012858 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A method and system for generating a feature map for lung images

(51) International classification :B08B 070000, G06N 030400, G06N 030800, G08G 010969, H04L 515200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present disclosure provides solution to the problems associated with studying the lung images. Moe particularly, the disclosure provides an accurate way of identifying feature types and condition states in lung images and hence avoids Inter - Observer Variability (IOV) between oncologists in annotating feature types and cancerous condition states in lung. The present disclosure provides method and system for generating a feature map for lung images. The system receives one or more lung images (X-ray or CT images), pre-process them to enhance its quality, extract one or more features in each of the one or more lung images which are pre-processed, and identifies one or more gradable lung images among the one or more lung images. Most importantly, the disclosure employs Generative Adversarial Networks (GAN) architecture, wherein the GAN is trained using the information associated with the pre-learned features in the one or more pre-stored gradable lung images.

No. of Pages : 30 No. of Claims : 9

(54) Title of the invention : Human-Robot-Interaction using cloud-based with Voice Recognition, Tracking, and Navigation System

(51) International classification :A61B 342000, A61B 900000, G01C 213600, G10L 150800, G10L 152200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

A robot that can assist humans in various areas, such as transporting objects and working more accurately and quickly on many types of tasks. A robot that can assist us in a hospital setting or transport medical supplies in an emergency situation will be more useful to a doctor in such situations. This kind of robot is very advantageous and will be used in the future. It is very likely that this kind of robot will be near to humans. This beneficial initiative aims to follow the appropriate person or obstruction. In this robot, infrared sensors are designed for both forward and reverse movement, and ultrasonic sensors are employed for both. The brain of this project was the Arduino Uno microcontroller. Four Dc motors power this robot, which is managed by an ATmega L293d-equipped motor driver shield. The major goal of creating this practical initiative was to improve and luxuriate our lives. In this project, a robotic automobile uses an IR sensor to automatically detect people and follow them around obstacles. The main goal of a robotic vehicle is to respond to user voice commands and carry out the assigned duty without the need for human intervention in a specified region where the robot is located. The robot can be controlled by vocal commands from the user, however it needs an Android app to interact using an ESP-32 module. The robotic vehicle can then perceive objects with the help of an ultrasonic sensor module. The motors that are used to power the robotic vehicle will be controlled by a modified Arduino for the hardware. When an abrupt obstruction is detected, the Arduino and ultrasonic sensors work together to assist with autonomous vehicle braking. Robots that can avoid obstacles are being used in hazardous environments where humans are not allowed. The voice is clearly recognised. Future trends will favour this kind of robot since it is more practical.

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : System and Method for Remote Health Monitoring of Older Adults using Internet of Medical Things

(51) International classification :A61B 050000, A61B 050205, A61B 051100, G05B 150200, G16H 406700
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The need for Remote Health Monitoring has become very important with the increase in population of senior citizens. The COVID-19 pandemic has exhibited the issues of social isolation of elder adults thereby increasing the risk of health issues. As per the research conducted by U.S. Census Bureau, in US the number of elder citizens is expected to exceed the population of children by 2030. Which in turn implies that by 2030, 19% of total population in US will be older adults. Proposed is a System and Method for Remote Health Monitoring of Older Adults using Internet of Medical Things. System consists of sensors to measure the heart rate, body temperature and blood oxygenation and blood glucose levels of older adults. Noisy ECG is detected and is compressed for reconstruction and pre-processing. After pre-processing, feature extraction process is carried out and signals are sent to Classification Engine. Edge-Computing Gateway takes care of compressing the signals, reconstruction, pre-processing and feature extraction. Cloud Datacentre is responsible for Disease Detection, Data Processing, Data Filtering, Data Analysis and Data Storage. Sensors and Actuators are connected to Local Area Networks that are in turn connected to Local Context Management and Network Gateway in User Environment. Gateway houses the applications, basic devices and a temporary data storage server. Monitoring platform is responsible for Data Manipulation and Data Visualization in turn interacts with the IoT Network.

No. of Pages : 16 No. of Claims : 3

(54) Title of the invention : BIOCOMPOSTABLE SANITARY NAPKINS WITH MICROFIBRIL ABSORBENT MEDIUM USING AGRO RESIDUALS

(51) International classification :A61F 135140, A61F 135300, B32B 273600, C07K 143950, C08L 670200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

A sanitary napkin for the usage of women during menstrual periods, obtained from Lignocellulosic materials from agricultural wastes, that have potential to be used as absorbent microfibril pulp furnishes following chemical composition, fibre property and surface morphology of selected non-wood fibres are used further, delignification is the process of separation of cellulose fibres from the lignin, result in increases the hydrophilic nature of the selected fibres. The pulp sample of Hibiscus sabdariffa were fluffed and farmed into carded web which was then converted to nonwoven hydroentangled spunlace fabric. This spunlace fabric was then finished with herbal composite extract for its improve antimicrobial property. The other three fibre pulps (Morus alba, saccharum officinarum and Helianthus annuus) were disintegrated in water to produce sheet with wet laid technique and infused with activated charcoal and BioSAP. All these compostable nonwoven fabrics will serve as core layer for hygiene sanitary napkins.

No. of Pages : 31 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012879 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ROTATING TYPE CIRCULAR SOLAR DRYER WITH INTEGRATION OF FLAT PLATE AND CONCENTRATED TYPE COLLECTORS FOR DRYING LINEN YARN CONE

(51) International classification :F24S 105000, F24S 107500, F24S 206700, F24S 800000, F24S 803000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Rotating Type Circular Solar Dryer with Integration of Flat plate and Concentrated type Collectors for Drying Linen Yarn Cone The present invention provides a rotating type circular solar dryer with integration of flat plate and concentrated type collectors for drying Linen Yarn Cone. The dryer consists of a solar absorber/collector and a drying chamber with rotating arms. One end of the flat plate collector is connected to a forced draft fan and the other end connects the drying chamber. The drying chamber is a concentrated type collector in a semi circular shape has a rotating arms in which the material to be dried is kept on arms. The dryer further has the provision for placing color indicative silica gel and phase changing material on both collector surface for improving the efficiency the rotating arms when operated in 360 degree horizontally. The other end of the drying chamber has an induced draft fan. Both the dc fans operate using a 10 watt photovoltaic Panel. V-trough reflectors made from anodized aluminum are fixed on the collector and optionally on the drying chamber.

No. of Pages : 28 No. of Claims : 17

(54) Title of the invention : IMPLEMENTATION OF IOT IN DISTRIBUTION NETWORK USING BLOCKCHAIN OUTLOOK FOR SMART HOMES

(51) International classification :B60W 301200, B60W 301600, H04L 090600, H04L 093200, H04L 656120
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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8)MS. SOWMYA D N
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10)DR. G P BAHUBALI
11)SMT. RUKMINI K
12)SMT. VARSHINI S K
13)MR. SHAMANTH B S
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(57) Abstract :
The present invention relates to the application of Blockchain technology in modern innovation that has the ability to be deployed in different sections of power systems, particularly for integrating small-scale distributed generation sources and making them smart to increase the observability, controllability, and the level of autonomy of distribution networks and microgrids. The pervasive renewable energy in small-scale poses new challenges for operators to manage an abundant number of small-scale generation sources, called micro sources. The current banking structures are unable to handle such massive high-frequency transactions. Thus, the incorporation of cryptocurrencies is inevitable. Besides, the utilization of IoT-enabled devices produces a large body of data that must be securely transferred, stored, processed, and managed to boost the grid's observability, controllability, and autonomy. Artificial intelligence and big data techniques are used to analyze the data for quasi-real-time decision making. This invention delves into the aforementioned controversial challenges and opportunities, and the corresponding solutions for the incorporation of IoT and blockchain in power systems, particularly in the distribution level, residential section, smart buildings, smart homes, energy hubs schemes, and the management of residential electric vehicle supply equipment are addressed.

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : A METHOD FOR MORPHOLOGICAL, ANATOMICAL AND BIOCHEMICAL ANALYSIS OF COSTUS IGNEUS AND SILVER NANOPARTICLE SYNTHESIS

(51) International classification :A61K 333800, A61K 362850, C09D 115200, G06T 053000, H01B 012200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention relates to the Costus igneus, Nak plant. The invention more particularly relates to the morphological, anatomical and biochemical analysis of costus igneus and synthesis of silver nanoparticle. The commercially and pharmaceutically important herbal plant Costus igneus species is taken as the study material. Plant C. igneus adapted under shade, light and net house condition further its morphological, anatomical and phytochemical changes are studied. Biosynthesized silver nanoparticles exhibit numerous beneficial effects antimicrobial, antioxidant, wound healing and anticancer effect. The different environmental grown leaf extract of green synthesis of AgNPs has been synthesized and characterized. This type of comparative environmental experiment by growing Costus igneus under different growth condition, further analyzing its response to growing condition and green synthesizing AgNPs nanoparticles for commercial and biomedical exploitation. Accompanied Drawing [FIG. 1]

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012893 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SYSTEMATIC APPROACH TO STUDY THE SILVER NANOPARTICLES IN CANCER DIAGNOSIS AND TREATMENT

<p>(51) International classification :A61P 350000, C12Q 016886, G01N 335740, G01N 336800, G06Q 100800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.R.E.Ugandar Address of Applicant :Professor and Head/Department of Pharmacy Practice, Nandyal, Kurnool, Andhrapradesh, India. -----</p> <p>2)Mr Sudheesh K Sundaresan 3)Dr. Yash Prashar 4)Dr. Manoj Kumar Banjare 5)Vikas saini 6)Krishna Chaithanya Alamr 7)Dr. Kailas Rajaram Kadam 8)Arjun K P 9)Hetvi Ganatra 10)Mohd Asif Shah 11)Miss Nikale Pooja Vasant 12)Dr. P Vamsi Krishna</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.R.E.Ugandar Address of Applicant :Professor and Head/Department of Pharmacy Practice, Nandyal, Kurnool, Andhrapradesh, India. -----</p> <p>2)Mr Sudheesh K Sundaresan Address of Applicant :The University of Northampton, Development Hub, Cliftonville Rd, Northampton, NN1 5FS, United Kingdom -----</p> <p>3)Dr. Yash Prashar Address of Applicant :Professor, Punjab Multipurpose Medical Institute, VPO Sehna, Tehsil Tapa, Barnala, Punjab, India -148103 -----</p> <p>4)Dr. Manoj Kumar Banjare Address of Applicant :Assistant Professor, Chemistry Department, Pandit Ravishankar Shukla University, Raipur, Chattisgarh, 492010, India -----</p> <p>5)Vikas saini Address of Applicant :Sushant University, Sec 55, Gurugram, Haryana, India. -----</p> <p>6)Krishna Chaithanya Alamr Address of Applicant :Associate Professor, Dept of General Medicine, Malla Reddy Institute of Medical Sciences, Sy No. 138, Suraram Main Road, GHMC Quthbullapur, Hyderabad, Medchal-Malkajgiri, Telangana, India - 500055 -----</p> <p>7)Dr. Kailas Rajaram Kadam Address of Applicant :Professor (Associate), Department of Chemistry, Padmashri Vikhe Patil Arts, Science and Commerce College Pravaranganagar, Ahmednagar, Maharashtra, India - 413713 -----</p> <p>8)Arjun K P Address of Applicant :Research Scholar, Department of Computer Science, RVS College of Arts and Science, Sulur, Coimbatore, Tamilnadu, India - 641402 -----</p> <p>9)Hetvi Ganatra Address of Applicant :Biotechnology, Sardar Patel University, Vadodara, Gujarat, India - 388120 -----</p> <p>10)Mohd Asif Shah Address of Applicant :Adjunct Faculty, School of Business, Woxsen University, Kamkole, Sadasivpet, Hyderabad, Telangana, 502345, India. -----</p> <p>11)Miss Nikale Pooja Vasant Address of Applicant :Assistant Professor, Department of Physics, S.S.G.M.College Kopargaon , Kopargaon, Ahmednagar, Maharashtra, India - 423601 -----</p> <p>12)Dr. P Vamsi Krishna Address of Applicant :Assistant Professor, School of Management, Malla Reddy University, Hyderabad, Ranga Reddy, Telangana, India - 500043 -----</p>
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(57) Abstract :
SYSTEMATIC APPROACH TO STUDY THE SILVER NANOPARTICLES IN CANCER DIAGNOSIS AND TREATMENT The nanometer silver composition of lung cancer and prostate cancer control consists of nanometer silver and the shaping auxiliary material of other injections, it is possible to be used as an antitumor drug in the prevention of lung cancer and the control of prostate cancer. Route of administration administration: intravenously, flesh are interior, subcutaneous, in skin, intraperitoneal. The silver compound is formed by anion exchange between a soluble silver salt and a sodium salt. Decomposition obtained from thermogravimetric measurement when the composite silver nanoparticles having an organic coating layer formed around a silver nucleus composed of a collection of silver atoms are thermally analyzed. Treating cancer in a patient, comprising administering to the patient an effective amount of a pharmaceutical composition comprising nanoparticles that comprise rapamycin and a carrier protein. The nanoparticles are attached to a cancer drug, a targeted cancer drug, a humanized monoclonal antibody, a chimeric monoclonal antibody, or a fully human antibody.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012894 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Smart tire puncture identification and self-healing system

(51) International classification :B29C 730800, B29C 731600, B29L 300000, B60C 191200, E01F 131200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to a smart tire puncture identification and self-healing system for vehicles. The system comprises a pressure sensor and a puncture sensor located within the tire or integrated into the valve stem, a control unit programmed with algorithms to distinguish between punctures and other sources of pressure loss, and an inflator powered by a battery or connected to the vehicle's electrical system. When a puncture is detected, the control unit initiates a self-healing process by automatically filling the tire with air and sealing the puncture with a sealant material or patching the tire with an internal patch. A notification unit alerts the driver when a puncture is detected and the self-healing process is initiated. The system also includes a mobile application or dashboard display for providing real-time tire pressure and puncture status to the driver. Overall, the smart tire puncture identification and self-healing system provides a safer and more convenient driving experience by eliminating the need for manual tire maintenance and reducing the risk of accidents due to sudden punctures.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012895 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Wireless Power Transfer System for Electric Vehicles

(51) International classification :B60L 531220, H02J 070200, H02J 501200, H02J 504000, H02J 508000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention is a wireless power transfer system for electric vehicles that provides a reliable and efficient method for charging electric vehicles wirelessly. The system includes a transmitter unit and a receiver unit that communicate wirelessly to transfer power from the transmitter to the receiver using inductive coupling technology. The system also includes a communication protocol to ensure safe and efficient power transfer. The wireless power transfer system for electric vehicles is designed to be easy to use, convenient, and scalable, allowing for deployment in a range of settings and charging needs. The invention provides a significant contribution to the field of electric vehicle charging infrastructure, helping to accelerate the adoption of electric vehicles and promote sustainable transportation.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012896 A

(19) INDIA

(22) Date of filing of Application :25/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PROJECT H2

(51) International classification :G06F 087100, G06Q 100600, G06Q 101000, G06Q 500800, G21C 033560
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The PROJECT-H2 is based on the concept of photoionization. Photoionization of hydrogen gas produce electricity. The electricity is used to power electronic devices. It also uses the concept of osmosis to produce electricity forever

No. of Pages : 7 No. of Claims : 6

(54) Title of the invention : An AI based system for generating program for solving simultaneous partial differential equations by use of finite element means and method thereof

(51) International classification :F01L 013520, G01H 110800, G06F 171300, G06F 190800, G06F 302300
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The proposed invention is an AI-based system for generating programs to solve partial differential equations (PDEs) using finite element methods (FEMs). The system includes a database of past solutions to a given equation, an AI algorithm for analyzing the data and generating FEM programs, and a FEM solver for obtaining a solution to the equation using the generated programs. The system can be applied to a variety of PDEs, including the heat equation, wave equation, Navier-Stokes equation, and advection-diffusion equation. The use of AI algorithms for program generation reduces the time and effort required to obtain FEM solutions and ensures more accurate results. The system has potential applications in fields such as physics, engineering, and finance, where the efficient and accurate solution of PDEs is essential.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : ANALYSIS AND STUDY OF ENGLISH INFORMATIVE TEACHING STRATEGIES USING SYSTEMATIC APPROACHES

(51) International classification :B25J 090000, C12N 091200, G09B 050400, G09B 190600, G16H 507000

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Analysis and study of English informative Teaching Strategies using Systematic Approaches is the proposed invention. The proposed invention focuses on understanding the various teaching strategies of English language. The invention will implement the systematic approaches to identify the pros and cons of English informative Learning techniques.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : Sentiment Analysis of College Survey using AI

(51) International classification :G06F 403000, G06N 030800, G06Q 300200, G06Q 502000, G09G 032000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Sentiment Analysis of College Survey using AI Abstract This system presents a combination of Machine Learning and NLP based approaches for sentiment analysis of student’s feedback. The textual feedback, typically collected towards the end of a semester, provides useful insights into the overall teaching quality, and suggests valuable ways for improving teaching methodology. The system describes a sentiment analysis model trained using BERT and VADER to analyse the sentiments expressed by students in their textual feedback. A comparative analysis is also conducted between the proposed model and other methods of sentiment analysis. The experimental results suggest that the proposed model performs better than other methods.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : ORAL HYGIENE DEVICE FOR ANIMALS

(51) International classification :A46B 150000, A61C 170200, A61C 172200, A61C 173400, A61Q 110000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

An oral hygiene device for animals, comprises of a body 1 adopted to be manually inserted in a mouth of an animal for performing cleaning of the animal's teeth, a motorized C-shape clamp 2 to clasp neck portion of the animal, a pair of flaps 3 for opening the mouth of an animal, a roller 5 fabricated with multiple bristles for performing cleaning, a motorized brush 7 for cleaning the front teeth of the animal, a nozzle fabricated within a chamber 9 to dispense tooth cleaning solution within the animal's mouth, an image capturing module 10 to capture multiple images of the animal's mouth to detect condition of the animal's teeth and an injury within the animal's mouth, plurality of container 11 filled with various chemical solutions and an electronic valve to dispense a particular chemical solution within the animal's mouth for providing relief to the animal.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : ANALYSIS OF TEACHING INNOVATION STRATEGY FOR SMART EDUCATION IN INDIA

<p>(51) International classification :A61K 367400, G06Q 502000, G09B 050800, G09B 190000, G09B 232800</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. T. S. Archana Address of Applicant :Assistant Professor, Commerce, Sree Ayyappa College For Women Chunkankadai, Nagercoil - 629003, Tamil Nadu, India Nagercoil -----</p> <p>2)Dr. K. Kanimozhi 3)Dr. G. V. Beena 4)Dr. R. S. Divya 5)Mrs. X. Agnes Pravina 6)Mrs. P. Maheswari 7)Dr. P Manimalathi 8)Dr. R. Kavitha Rani 9)Dr. S. Farhad 10)Dr. G. Baby Alex 11)Dr. M. Subramanian 12)Dr. C. Subathra 13)Mr. J Logeshwaran</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. T. S. Archana Address of Applicant :Assistant Professor, Commerce, Sree Ayyappa College For Women Chunkankadai, Nagercoil - 629003, Tamil Nadu, India Nagercoil -----</p> <p>2)Dr. K. Kanimozhi Address of Applicant :Assistant Professor, Commerce, Sree Ayyappa College For Women, Chunkankadai, Nagercoil - 629801, Tamilnadu, India Nagercoil -----</p> <p>3)Dr. G. V. Beena Address of Applicant :Assistant Professor, Pg Commerce (S.F), Sree Devi Kumari Womens College, Kuzhithurai - 629163, Tamil Nadu, India Kuzhithurai -----</p> <p>4)Dr. R. S. Divya Address of Applicant :Assistant Professor, Commerce, Sree Ayyappa College For Women, Chunkankadai, Nagercoil - 629801, Tamilnadu, India Nagercoil -----</p> <p>5)Mrs. X. Agnes Pravina Address of Applicant :Assistant Professor, Management Studies, Noorul Islam Centre For Higher Education, Tuckalay – 629180, Tamilnadu, India Tuckalay -----</p> <p>6)Mrs. P. Maheswari Address of Applicant :Assistant Professor, Stet College Of Education For Women,Sundarakottai, Mannargudi - 614001, Tamilnadu, India Mannargudi -----</p> <p>7)Dr. P Manimalathi Address of Applicant :Assistant Professor, Economics, Sri Ramakrishna College Of Arts And Science, Coimbatore - 641006, Tamilnadu, India Coimbatore -----</p> <p>8)Dr. R. Kavitha Rani Address of Applicant :Assistant Professor, Faculty Of Management Studies, Noorul Islam Centre For Higher Education, Kumaracoil - 629180, Tamil Nadu, India Kumaracoil -----</p> <p>9)Dr. S. Farhad Address of Applicant :Associate Professor, English, Konerulakshmaiah Education Foundation (Deemed To Be University), Guntur - 522502, Andhra Pradesh, India Guntur -----</p> <p>10)Dr. G. Baby Alex Address of Applicant :Assistant Professor, Commerce, VTM College Of Arts And Science, Arumanai, Kanyakumari - 629152, Tamilnadu, India Kanyakumari -----</p> <p>11)Dr. M. Subramanian Address of Applicant :Assistant Professor, B.Com(Accounting &Finance), St.Thomas College Of Arts And Science, Chennai - 600107, Tamilnadu, India Chennai -----</p> <p>12)Dr. C. Subathra Address of Applicant :Assistant Professor, Commerce, Pioneer Kumaraswamy College, Nagercoil - 629001, Tamilnadu, India Nagercoil -----</p> <p>13)Mr. J Logeshwaran Address of Applicant :Research Scholar, Department Of Electronics And Communication Engineering, Sri Eshwar College Of Engineering, Coimbatore, Tamil Nadu, India Coimbatore -----</p>
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(57) Abstract :
The Teaching Innovation Strategy for smart Education in India is an initiative that aims to improve the quality of education in India by using innovative teaching practices. This strategy has been designed to promote the use of modern teaching techniques such as technology-enabled teaching, collaborative learning and virtual classrooms. The goal of this strategy is to create a learning environment that is engaging and adaptive to the needs of the students. The Teaching Innovation Strategy for smart Education in India has been designed to help teachers to be prepared for the future. It encourages teachers to develop their skills and to use the latest technologies to create interactive and engaging learning environments. This strategy also promotes the use of digital tools to evaluate and monitor student progress and to provide feedback to students. The Teaching Innovation Strategy for smart Education in India is an important part of the Government of India's plans to create an educational system that is responsive to the changing needs of the students. This strategy will help teachers to create an environment that is both engaging and adaptive to the needs of the students. This strategy is also aimed at providing teachers with the tools they need to be successful in the classroom.

No. of Pages : 10 No. of Claims : 10

(54) Title of the invention : METHOD OF PHARMACEUTICAL COMPOSITION COMPRISING ACETAZOLAMIDE FOR RETINAL PROTECTION AND ANALYSIS

<p>(51) International classification :A61K 314330, A61K 381700, A61P 054800, A61P 270200, C07D 131400</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Meena. S Address of Applicant :Assistant Professor, Department of Chemistry, Dayanandasagar College of Engineering, Shavige Malleshwara Hills, 91st Main Rd, 1st Stage, Kumaraswamy Layout, Bengaluru - 560078, Karnataka, India Bengaluru ----- -----</p> <p>2)Mr. Mohan Babu. S Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Meena. S Address of Applicant :Assistant Professor, Department of Chemistry, Dayanandasagar College of Engineering, Shavige Malleshwara Hills, 91st Main Rd, 1st Stage, Kumaraswamy Layout, Bengaluru - 560078, Karnataka, India Bengaluru ----- -----</p> <p>2)Mr. Mohan Babu. S Address of Applicant :Metallurgy Engineer, Quality Controller, #5-A, First Floor, Varasanthai Road, Bhavani, Erode - 638301, Tamilnadu, India Erode -----</p>
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(57) Abstract :

Pharmaceutical compositions for the treatment of ophthalmic diseases, suitable for topical ocular administration and for systemic administration, comprising solid lipid nanoparticles (SLNs) with a mean diameter comprised between 50 and 400 nm wherein, within said nanoparticles, a pharmacologically active substance for the specific ophthalmic treatment is incorporated. Acetazolamide (ACZ) is a diuretic used in glaucoma treatment; it has many side effects. Carvedilol (CAR) is a non-cardio selective beta-blocker used in the treatment of elevated intraocular pressure; it is subjected to the first-pass metabolism and causes fluids accumulation leading to edema. This study focuses on overcoming previous side effects by using a topical formula of a combination of the two previous drugs. Sixty formulations of niosomes containing Span 20, Span 60, Tween 20, and Tween 60 with two different ratios were prepared and characterized.

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : APPLICATION OF BIO-CEMENT TO ENHANCE PROPERTIES OF CONCRETE

(51) International classification :C04B 033000, C04B 242800, C04B 400000, C07C 514100, G01N 333800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

APPLICATION OF BIO-CEMENT TO ENHANCE PROPERTIES OF CONCRETE The present invention relates to application of bio-cement to enhance properties of concrete. The bio-cement comprises Bacillus pasteurii (5%) and urea and calcium lactate (95%). The effect of nutrient components of media such as Carbon and Nitrogen content of organic nutrients (Urea& Calcium Lactate) and bacterial cells (Bacillus.Pasteurii) on the chemical and structural properties of concrete are carried out. In the present invention, pores in concrete are filled with micro biologically induced calcium carbonate precipitate (MICP) at the initial stage before the formation of cracks. Biogenic precipitations of CaCO₃ by bacterial cells counteract the retarding effect of organic nutrients of concrete and enhance the strength and durability properly. The addition of 1% bio-cement to M25 grade concrete increases the compressive strength by 15 %. Figure of abstract: FIG. 1

No. of Pages : 23 No. of Claims : 6

(54) Title of the invention : Intelligent Clinical Trial and Management System

(51) International classification :A61F 024600, A61K 353000, G16H 102000, G16H 106000, G16H 704000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention proposes an intelligent clinical trial and management system that integrates vital sign sensors to collect and manage patient data in real-time during clinical trials. The system comprises a software platform that can monitor patients' blood pressure, glucose levels, heart rate, blood oxygen level, respiration rate, ECG, and EEG in real-time. The system can collect and process large volumes of data from multiple sensors and provide real-time alerts and notifications to the trial team if any vital signs deviate from predetermined thresholds. The intelligent clinical trial and management system can also optimize the trial protocol by providing real-time insights into patient responses to treatment and helping to adjust treatment regimens based on the individual patient's vital signs. The system can identify eligible patients for the trial based on specific inclusion and exclusion criteria, which can reduce recruitment time and improve the selection of patients. The proposed system is designed to comply with applicable regulations, protect patient privacy and data security, and ensure the ethical conduct of the trial. The system can securely transmit patient data to the trial team, and the data is stored on secure servers to ensure confidentiality and privacy. The system can also ensure that all clinical trials are conducted in accordance with the appropriate ethical guidelines and regulatory requirements. The intelligent clinical trial and management system has the potential to improve the efficiency and safety of clinical trials, reduce costs, and accelerate the development of new treatments and therapies. By providing real-time monitoring of patients' vital signs, the system can detect adverse events earlier, reduce the risk of errors, and enhance patient safety. The system can also optimize trial protocols and reduce the need for additional patient visits, thereby reducing costs and speeding up the development of new treatments and therapies. The system can provide real-time monitoring, optimize trial protocols, and identify eligible patients based on specific criteria, which can enhance patient safety, reduce costs, and accelerate the development of new treatments and therapies. To enhance the security and privacy of patient data, the proposed system incorporates blockchain technology. The patient data is encrypted and stored on a distributed ledger, which ensures that the data is immutable and cannot be altered or tampered with. The blockchain also provides a transparent and auditable record of all data transactions, which enhances the trust and credibility of the clinical trial process.

No. of Pages : 19 No. of Claims : 7

(54) Title of the invention : Smart Nanocomposite Protective Gadget with an Intelligent Multisensor Device for Detecting the Hazardous Events in Mining Industry

(51) International classification :G01N 150000, G05B 194180, G06Q 500200, G08B 171000, G08B 291800
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

A smart helmet for industry miners using IoT technology is employed for safety issues. A smart nanocomposite protective helmet with intelligent sensor is developed that is able to detect the hazardous events in the mines industry. This project consists of two modules one on the helmet and the other on the control room. Helmet switch sensor (Push button), accelerometer sensor, air quality sensor and Infrared (IR) sensor, temperature sensor and nanocomposite PCM (Phase changing material) are attached with the helmet module. Helmet switch sensor detects whether the helmet is on the miner's head or not. An accelerometer sensor is used to determine the acceleration of the head and it identifies the position of the helmet. Any hazardous gases such as carbon monoxide, nitrogen dioxide etc over the beyond level can be easily detected by using the air quality sensor. For avoiding collision an IR sensor is used. It detects the obstacles. If there is any hazardous event is detected such as the person removes the helmet, the air quality of the surrounding is poisonous, there is alarm system which get triggered and notification is sent to concern department of the control room with the help of blynk app. Oxygen supplement is provided within the helmet to avoid the inhalation of poisonous gases by the opening of solenoid valve. Temperature sensor measures the temperature of the coal mine. Nano composite PCM is provided inside the helmet to protect the body from heat and fire. All the systems are monitored and controlled by IOT (internet of things) technology.

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : MICROENCAPSULATION OF CELECOXIB TO ENHANCE SOLUBILITY PROFILE FOR THE MANAGEMENT OF ALZHEIMER'S DISEASE LIKE PATHOLOGY

(51) International classification :A61K 090800, A61K 314150, A61K 316350, A61P 090000, A61P 252800
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

Alzheimer's disease (AD) is characterized by the loss of neurogenesis and excessive induction of apoptosis. The induction of neurogenesis and inhibition of apoptosis may be a promising therapeutic approach to combating the disease. Celecoxib (CB), a cyclooxygenase-2 specific inhibitor, could offer neuroprotection. Specifically, the CB-encapsulated erythrocyte membranes sustained the release of CB over a period of 72 h in vitro and exhibited high brain bio distribution efficiency following intranasal administration, which resulted in the clearance of aggregated β -amyloid proteins (A β) in neurons. The high accumulation of the CB-RBCMs in neurons resulted in a decrease in the neurotoxicity of CB and an increase in the migratory activity of neurons, and alleviated cognitive decline in APP/PS1 transgenic (Tg) mice. To this end, the CB-RBCMs achieved better effects on concurrently increasing neurogenesis and decreasing apoptosis than the phospholipid membrane-encapsulated CB liposomes which are critical for the development and progression of AD. Therefore, CB-RBCMs provide a rational design to treat AD by promoting the self-repairing capacity of the brain.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012954 A

(19) INDIA

(22) Date of filing of Application :26/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATIC POWER CUT OFF DURING FLOOD IN FLOOD PRONE AREAS AND COMMUNICATING THE LOCAL DISRIBUTION

<p>(51) International classification :E02B 031000, E06B 090000, G06F 303000, H01H 035000, H04B 017115</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE Address of Applicant :MEDAVAKKAM-MAMBAKKAM ROAD PONMAR Chennai Chennai ----- 2)PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECHNOLOGY 3)PRINCE SHRI BALAJI ARTS AND SCIENCE COLLEGE 4)PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PROF.A.S VALARMATHY Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering,Prince Shri Venkateshwara Padmavathy Engineering College,Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 2)S.K.ALLENSAMJE Address of Applicant :Department of Electronics and Communication Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 3)V.ABINAYA Address of Applicant :Department of Electronics and Communication Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 4)R.BHUVANESH Address of Applicant :Department of Electronics and Communication Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 5)G.JEEVANANDHAM Address of Applicant :Department of Electronics and Communication Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 6)G.KAVIYA Address of Applicant :Department of Electronics and Communication Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 7)D.VIGNESH Address of Applicant :Department of Electronics and Communication Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai -----</p>
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(57) Abstract :

In this project we are going to develop an Automatic power cut-off supply during flood in flood prone areas. This system consist of a ultrasonic sensor which measures the water level and sends the real time data or the information to the Arduino board, the Arduino board process the information and sends the information to the corresponding LED indicator depending on the water level the respective LED indicator will glow. From this the LED sends electric pulse the secondary Arduino board and it process the information and it will turn OFF the relay and by using a GSM module it send a warning message to the local distributive station. The proposed system will provide a cost-effective and reliable solution to prevent loss of life and property during floods in flood prone areas.

No. of Pages : 6 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012955 A

(19) INDIA

(22) Date of filing of Application :26/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : HEART FAILURE PREDICTION AND HEART BEAT ANOMALY DETECTION

(51) International classification :A61B 050240, A61P 090000, A61P 090400, G06F 113000, H02J 033600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

The medical data, which may include blood pressure, hypertension, diabetes, the number of cigarettes smoked per day, and so on, may be used as an input, and then the characteristics may be modelled in order to make a forecast. After that, one may utilize this model to make projections about forthcoming medical data. Deep learning was used to the problem of automated cardiac auscultation, which entails identifying irregularities in heart sounds by analyzing stethoscope sounds and even waveforms captured using the microphone of a mobile phone as inputs. This was done as part of this particular body of work. We introduce a method for automatically classifying heart sounds that makes use of time-frequency heat map representations in conjunction with a deep convolutional neural network (CNN).

No. of Pages : 15 No. of Claims : 3

(54) Title of the invention : CP DETECTOR

(51) International classification :A61B 060000, D06H 031400, G01N 306400, G01N 307400, G01N 308800

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 Chemical preservatives are man-made substances that are added to a variety of products to extend their shelf life. Chemicals used as artificial preservatives can be harmful to your health. Depending on what kind of preservative is employed. In fact, they can be helpful. Preservatives can be seriously damaging, though, if applied improperly or too frequently. It is best to completely avoid using any artificial preservatives in order to avoid any confusion. Starting with healthy eating, checking the contents in your food, and investigating dubious substances that you might not be aware of are all good places to start. Check the ingredients of the canned foods before buying them. Only buy organic goods, which don't include artificial preservatives or additives.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012958 A

(19) INDIA

(22) Date of filing of Application :26/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : HAND GESTURE RECOGNITION USING CNN

(51) International classification :G06F 030100, G06F 030488, G06K 096200, G06N 030400, G06N 030800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

By encoding hand pictures as rotational vectors derived using a real-valued centroid, noise issues that arise when processing tiny images or large-granularity images may be minimized. Because of this, the hand area has been sector off from the pixel quantization process. Following the process of identifying hand-colored areas using color segmentation, region labelling is performed in order to filter out noisy regions depending on the size of the regions. The plotting of gesture models requires the use of principal component analysis.

No. of Pages : 15 No. of Claims : 3

(54) Title of the invention : EARLY PREDICTION OF YELLOW LEAF DISEASE IN ARECA TREE

(57) Abstract :

The agricultural sector was crucial to the growth of India's economy. The national economy as a whole will suffer if farming declines. Whether it's a bacterial sickness or a fungal infection, today's farmers have a lot on their plate. Diseases on leaves may have environmental or anthropogenic causes, such as the warming of the temperature or the contamination of the soil and the air. Around half of the farmers in our nation are uneducated and living in poverty, so they have no idea which pesticides to use to protect their crops from pests and diseases. There has been a considerable decline in both the quality and quantity of areca nuts due to yellow leaf disease (YLD) in areca nut trees. The early stages of YLD and the fertilizer used to keep the crop from illness cannot be seen by the human eye, therefore we utilize computer-based programming data to identify the disease and give cures. Early detection of yellow leaf diseases is crucial for their prevention and control; by using a computer programming system, the disease can be easily detected over a wide area, and both its cause and its cure can be pinpointed with pinpoint accuracy; this is in contrast to the alternative, which is to rely on human eyes alone, which can be a time- and money-consuming and inaccurate process.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012961 A

(19) INDIA

(22) Date of filing of Application :26/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : FACE MASK DETECTION

(51) International classification :A41D 131100, A61M 160600, A62B 180800, A62B 230200, B63C 111200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The face mask detection system using artificial intelligence is an innovative and effective solution to enforce face mask mandates and prevent the spread of COVID-19. By using deep learning and computer vision technology, the system can analyze images of people's faces and determine whether they are wearing a face mask. The system can be deployed in various public places, such as airports, hospitals, schools, shopping malls, and public transport, to provide an additional layer of protection against the virus. While there are challenges that must be addressed, the benefits of the system far outweigh the costs, and it has the potential to save countless lives.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : SMART DETECTIVE AGENT FOR TOXIC GAS

(51) International classification :C09D 076100, G01T 012900, G08B 211400, H01J 373200, H05K 010300

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Gas detection experts define a toxic gas as one that can cause damage to living tissues, impairment of the central nervous system, or even death, if it is breathed in or absorbed by the skin or eyes. It is called sewer gas stink damp and manure gas. Nitrogen ozone phosgene and sulphur dioxide can be examples. It can occasionally be found in almost any confined space but is most often associated with raw sewage animal products and the pulp and paper industry. Natural gas is a component of sulfur deposits volcanic gases and sulfur springs. There are three different types of toxic gases. Lead hydrofluoric acid and chlorine gas are two of the most common chemicals. We must take care about the environment in which we live. Detection of toxic gas leak is the main purpose of the project. Real time concentration of gases can be provided by the system. The lives of people can be saved by this method.

No. of Pages : 6 No. of Claims : 6

(54) Title of the invention : COVID-19 Detection from Chest X-Ray

(51) International classification :A61B 060000, A61K 360760, A61P 311400, A63B 231200, G16H 508000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 COVID-19, a novel respiratory virus, has caused an unprecedented strain on healthcare systems throughout the globe. It is possible that governments might benefit from early and automated identification of Covid-19 for purposes such as prompt referral to quarantine, fast intubation of severe cases in specialist facilities, and tracking of the disease's spread. Here, we suggest analyzing medical pictures for patterns that might lead to the automated identification of COVID-19 infection in patients, with a chest X-ray serving as the primary diagnostic tool. Primary to this study is the proposal of a deep neural network-based model for extremely accurate identification of COVID-19 infection from chest X-Ray pictures of patients.

No. of Pages : 19 No. of Claims : 4

(54) Title of the invention : NON-INVASIVE DETECTION OF ANEMIA USING AI TECHNIQUES

(51) International classification :A61B 050000, A61B 080800, A61P 070600, G01N 350000, H01L 271200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Anemia is a health risk disease that is characterized by a lack of red blood cells or hemoglobin in the blood stream. According to the Globe Health Organization (WHO), this ailment affects one-fourth of the whole population of the entire world. It is thus very necessary to have an automated, fast, and trustworthy detection method for anemia. In most cases, the physician will make a preliminary diagnosis of anemia by visually inspecting the color of the anterior conjunctiva of the eye. This diagnosis will then be verified by means of an intrusive blood test. In the course of this research, we developed a system that is capable of the non-invasive and automated diagnosis of anemia using visual methods. The treatment of this disease might benefit from the use of non-invasive technologies for monitoring and recognizing possible risks of anemia, as well as devices based on smartphones that are capable of doing this duty. Despite the fact that writing a review was not the primary objective of our project, we did take into account the results of a few well-known previous investigations into the subject matter. Iron deficiency anemia is the most frequent kind of nutritional insufficiency, and it is responsible for the deaths of thousands of people every year. Unfortunately, it is also responsible for higher morbidity and mortality rates among pre-school children and pregnant women.

No. of Pages : 19 No. of Claims : 3

(54) Title of the invention : SMART URINAL

(51) International classification :A47K 111200, A61G 090000, E03C 012800, E03D 051000, E03D 130000

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Urine odours can result in poor air quality, leading to an increased risk of respiratory problems. Urine odours can create an unpleasant environment. Urine odours can cause embarrassment and humiliation, particularly in public or social situations. So the odour from the urine must be eliminated to ensure safety and wellbeing. Therefore we are using a non-toxic odour remover in an effective manner to reduce the inconvenience caused by the odour of the urine. Therefore, the hazard for the environment and the usage of water for flushing is greatly reduced. We no longer need the manual flushing system as well.

No. of Pages : 6 No. of Claims : 6

(54) Title of the invention : SMART ROBOT COMPANION FOR CHILD

(51) International classification :B25J 050000, B25J 091600, B25J 110000, B25J 130000, B25J 190000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 This research offers a system for monitoring infants to assist parents who are already overworked. This system can detect the baby's movements and sounds, including crying, and display a video output of the baby's current location on a display monitor so that the mother or another responsible adult may watch the infant while they are away. This baby monitoring equipment is capable of automatically detecting the infant's movement and crying. The Arduino Nano module houses the motion sensor, camera, and voice recognition module together with the main control mechanism for the hardware. The baby's movement is also detected by a motion sensor. The Arduino IDE is used to control the hardware components.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012968 A

(19) INDIA

(22) Date of filing of Application :26/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : FACE AND VOICE RECOGNITION

(51) International classification :G10L 150000, G10L 150600, G10L 150800, G10L 152200, G10L 152600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Facial recognition is used nowadays for many purposes. Using it people can unlock a smart phone, tag their friends in social media posts, or superimpose one face onto another in photos. This biometric technology has improved authentication, making it fast, simple, and highly accurate. Voice biometric recognition works by inputting the voice of the individual whose identity must be stored in the system. This input is kept as a print for authentication. The input print is made with software that can split the voice statement into multiple frequencies. Here We Propose a unique combination of face and voice recognition that provides maximum security, yet remains fast, convenient, and easy to use while ensuring the highest verification rates for the user which can be used for the Safety Purposes of elderly people and children through age calculation and gender identification. Here we use a Raspberry Pi camera module to continuously observe live video feeds and detect human faces and voices in them.

No. of Pages : 6 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341012989 A

(19) INDIA

(22) Date of filing of Application :26/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ACCIDENT DETECTION USING SMART RESCUE SYSTEM

(51) International classification :G05B 170200, G07C 050000, G07C 050800, G08B 250100, H04W 049000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Road accidents are rising quickly today. The primary cause of those collisions is exceeding the speed limit. One of the primary issues that result in a fatality is the delay in getting the ambulance to the scene of the accident. There is already a system in place that communicates the hospital's position, but to address its shortcomings, we will introduce a new system that sends immediate communication to the ambulance. These activities are brought about by the accident detection sensor, which is fastened to the car's structure.

No. of Pages : 6 No. of Claims : 6

(54) Title of the invention : A METHOD OF MAKING AND USING COMPOSITIONS OF METAL NANOPARTICLES FORMED BY GREEN CHEMISTRY SYNTHETIC TECHNIQUES

<p>(51) International classification :B82Y 300000, B82Y 400000, C08F 930000, C09D 050800, H01M 100525</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Govindarao Yedlapalli Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis & Quality Assurance, Siddhartha Institute of Pharmaceutical Sciences, Guntur road, Jonnalagadda, Narasaraopet Mandal, Guntur - 522601, Andhra Pradesh, India. -----</p> <p>2)Ms. Saloni Sharma 3)Mr. Gyanendra Kumar Saxena 4)Ms. Pratibha Kumari 5)Mrs. Padmasri Budumuru 6)Mrs Usha Singh 7)Dr. Avneet Gupta 8)Ms. Rasmita Jena 9)Mrs. Nimalapalli Yamini 10)Mr. Wake Chandrashekhar Bhausaheb 11)Dr. Sandeep Gupta 12)Dr.P.Balaji</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Govindarao Yedlapalli Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis & Quality Assurance, Siddhartha Institute of Pharmaceutical Sciences, Guntur road, Jonnalagadda, Narasaraopet Mandal, Guntur - 522601, Andhra Pradesh, India. -----</p> <p>2)Ms. Saloni Sharma Address of Applicant :Ph.D. Research Scholar JSS College of Pharmacy, Ooty -----</p> <p>3)Mr. Gyanendra Kumar Saxena Address of Applicant :Principal, Maharana Pratap College of Pharmacy and Paramedical Sciences, Kanpur, Uttar Pradesh, India -----</p> <p>4)Ms. Pratibha Kumari Address of Applicant :Research Scholar/Assistant Professor, Department of Pharmacy, School of Medical and Allied Sciences Galgotias University, Plot No. 2, Sector -17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin Code- 201310 -----</p> <p>5)Mrs. Padmasri Budumuru Address of Applicant :Associate Professor, Department of Pharmaceutical Technology Sri Venkateswara College of Pharmacy, Srikulam, Andhra Pradesh, India -----</p> <p>6)Mrs Usha Singh Address of Applicant :Assistant Professor BIT Partapur, Meerut B-70 Police Enclave Lohiya Nagar Meerut, Uttar Pradesh, India. -----</p> <p>7)Dr. Avneet Gupta Address of Applicant :Professor, Shiva Institute of Pharmacy, Chandpur, Bilaspur, Himachal Pradesh, India ---</p> <p>8)Ms. Rasmita Jena Address of Applicant :Assistant Professor, School of Pharmacy and Life Sciences Centurion University of Technology and Management, Ramachandrapur, Jatani, Bhubaneswar, Khordha, Odisha, 752050 -----</p> <p>9)Mrs. Nimalapalli Yamini Address of Applicant :Assistant Professor (Adhoc), Department of Pharmacology JNTUA OTPRI Jawaharlal Nehru Technological University, Anantapur, Andhra Pradesh,515001 -----</p> <p>10)Mr. Wake Chandrashekhar Bhausaheb Address of Applicant :Student, Dr. Kolpe Institute of Pharmacy, Kolpewadi, Kopargaon, Ahmednagar, Maharashtra, India -----</p> <p>11)Dr. Sandeep Gupta Address of Applicant :Principal, Tagore Institute of Pharmacy and Research, Turkadih Bypass Road, Sakri, Bilaspur, Chattisgarh 495001 India. -----</p> <p>12)Dr.P.Balaji Address of Applicant :Professor, Department of Pharmacology, School of Pharmaceutical Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chengalpattu, Chennai -600 117. -----</p>
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(57) Abstract :

A METHOD OF MAKING AND USING COMPOSITIONS OF METAL NANOPARTICLES FORMED BY GREEN CHEMISTRY SYNTHETIC TECHNIQUES Porous non-zeolitic carrier particles supporting metal halide within the pores of said carrier particles, wherein the average pore size of the carrier particles is greater than. Surface-modified metal nanoparticles comprising a metal core and a coating layer. The coating layer comprising at least one ligand bound to the surface of the metal core and conjugated to polyethylene glycol, wherein at least one ligand is selected from the group consisting of free n-acetyl cysteine, albumin, and free cysteine. The plant extract is selected from the group consisting of tea extract, green tea extract, coffee extract, lemon balm extract, sorghum bran, sorghum bran extract, and polyphenolic flavonoid. Adding at least one ligand conjugated to polyethylene glycol to a mixture comprising metal nanoparticles. The at least one ligand binds to the surface of at least one metal nanoparticle core, yielding a surface-modified metal nanoparticle, wherein the ligand is selected from the group consisting of free n-acetyl cysteine.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013004 A

(19) INDIA

(22) Date of filing of Application :26/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Design System of IoT Driven Intelligent Water Quality Monitoring and Removal of Unpleasant Smell from Wastewater for Smart City

(51) International classification :A47G 192200, C02F 010000, G01N 331800, G06Q 502600, H04L 671200
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

With the steady increase in the contamination and pollution of drinking water over the past few years, water pollution has emerged as a major threat. Multiple illnesses in humans and other animals are just one way that polluted water can disrupt the natural order of things in an ecosystem. The sooner water contamination is discovered, the sooner corrective measures can be taken, and the sooner emergency situations can be avoided. If we want to make sure there is always clean water available, we need to monitor the water quality in real-time. As sensor, connectivity, and IoT technologies advance, sophisticated methods for monitoring water pollution are becoming increasingly important. The first section covers the hardware, while the second covers the software. Sensors measure data in real-time, an Arduino ATMEGA328 converts analog to digital values, and an LCD displays the data. A wireless module communicates between the hardware and the software. The ATMEGA328 has a built-in analog-to-digital converter and wireless LAN modules. The developed model is tested on three different water samples, and the results are reported to a remote server. Each of the water quality parameters is checked, and the results are uploaded to a cloud server and displayed on an LCD screen.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : IoT driven Home Energy Management System with a Smart Plug Design

(51) International classification :G05B 150200, G06Q 500600, H02J 031400, H04L 093200, H04L 410000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 There is no sustainable way to meet the current energy needs with the current supply of natural resources. Thirty percent of EU energy use comes from the residential sector. By 2030, experts expect that global energy demand will have doubled, with corresponding negative environmental repercussions. Several studies have shown that by implementing an effective energy management system, energy consumption in buildings can be lowered by as much as 15%. Due to its ubiquitous nature and critical role in daily life, the ever-increasing need for energy has sparked intense research and development in the field of energy efficiency. Customers might be encouraged to follow the energy-saving pattern by offering them discounts on their utility bills. Domestic energy management is facilitated by Demand Response (DR) participation, which also helps mitigate frequency deviation issues, the resolution of which, upon closer inspection, necessitated the use of self-learning energy consumption feedback. By keeping close tabs on energy use, we can drastically cut back on unnecessary consumption. Household energy management systems (HEMS) are a viable option for this, but they require detailed tracking of each appliance's power consumption. Intrusive and non-intrusive methods exist for monitoring energy use at the appliance level. Non-Intrusive Load Monitoring (NILM) is favored over intrusive methods because it allows for energy monitoring to take place with less metering infrastructure and at a lower sub-metering installation cost. By repeated predictions and feedbacks, NILM unlocks the door to effective use of energy on the demand side.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR ESTABLISHMENT OF DIGITAL MARKETING

(51) International classification :G06N 050400, G06N 070000, G06N 200000, G06Q 100600, G06Q 300200

(86) International Application No :PCT// /

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

An artificial intelligence analysis system, according to one embodiment of the present invention, consists of: a server; a user device for sending information about a request to enter into a partnership and a purchaser's request for purchase of goods generated on the basis of SNS to the server as a user inputs same; and a server. and a device from a partner company for uploading information about goods to be sold to the server, where the server includes: a communication unit for collecting information needed to perform artificial intelligence-based data mining; a storage unit for storing artificial intelligence-based result values and data for performing data mining collected by the communication unit; and a control unit that enters into a partnership with a specific partner company selected based on the user device's request to enter into a partnership, provides information about goods to be sold provided by the partner company to the user device, determines that a purchase has occurred and requests delivery of purchased goods to the partner company upon confirming a goods purchase request event and a sales amount payment event of a purchaser from the user device.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : A METHOD OF CONTROLLING HEAT GENERATED ALONG THE WELDING DIRECTION BY CONTROLLING GEOMETRY OF FRICTION STIR WELDING TOOLS

<p>(51) International classification :A61P 090000, A61P 250000, A61P 370000, B23K 201200, B29C 650000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Raffi Mohammed Address of Applicant :Professor, Department of Mechanical Engineering, NRI Institute of Technology, Pothavarappadu Village, Agiripalli Mandal, Krishna District, Andhra Pradesh, India-521212 -----</p> <p>2)Dr.C.Sailaja 3)Dr. Rajasekaran Shanmugam 4)Dr. Avinash Ben 5)Mr.M.Siva 6)Dr.T.Subba Reddy 7)Mr.R.Bhoopathi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Raffi Mohammed Address of Applicant :Professor, Department of Mechanical Engineering, NRI Institute of Technology, Pothavarappadu Village, Agiripalli Mandal, Krishna District, Andhra Pradesh, India-521212 -----</p> <p>2)Dr.C.Sailaja Address of Applicant :Professor, Department of Mechanical Engineering, Bangalore College of Engineering and Technology, Chandapura, Bangalore-560099 -----</p> <p>3)Dr. Rajasekaran Shanmugam Address of Applicant :Dean-Research, Ajeenkya D Y Patil University The Innovation University, DC Building, Dr. Dy Patil Knowledge City, Charholi Budruk, Via Lohegaon, Pune 412105, Maharashtra, India -----</p> <p>4)Dr. Avinash Ben Address of Applicant :Associate Professor, Avanthi Institute of Engineering and Technology, Cherukupalle (Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist), Andhra Pradesh (State), Pin- 531162 -----</p> <p>5)Mr.M.Siva Address of Applicant :Assistant Professor, Department of Mechanical Engineering, St.Joseph's College of Engineering, Old Mamallapuram Road, Chennai-600119 ----</p> <p>6)Dr.T.Subba Reddy Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Andhra Loyola Institute of Engineering and Technology, Vijayawada, Andhra Pradesh -520008 -----</p> <p>7)Mr.R.Bhoopathi Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Sairam Engineering College, Chennai-600044, Tamil Nadu, India -----</p>
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(57) Abstract :
The present invention relates to a method of controlling heat generated during friction stir welding by modifying the geometry of the welding tool. The method includes measuring the temperature distribution along the joint line during the welding process using a temperature sensor and analysing the data to determine areas of high heat generation. The shape, size, and angle of the shoulder and pin of the welding tool are modified to distribute heat evenly along the joint line, based on the temperature data analysis. The temperature distribution is continuously monitored during the welding process, and the welding tool geometry is adjusted as needed to maintain an even temperature distribution.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : Deep Learning-Based Patient Monitoring System Using IoT for Healthcare

(51) International classification :A61B 050000, G06N 030800, G16H 106000, G16H 406700, G16H 502000

(86) International Application No :PCT// /
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 Automated physiological signal monitoring for elderly unwell patients allows for quick data availability as well as dependable service through correct forecasting by the healthcare provider. This research focuses on an innovative Internet of Things (IoT) application-based physiological signal monitoring system to enhance the e-healthcare system in order to overcome this difficulty. A precise signal prediction and estimate approach based on deep neural networks was used to implement the suggested system. An intelligent sensor for signal measurement and a National Instruments myRIO for intelligent data collecting are used to prototype the proposed system as an advanced electronics component. As a consumer device, Smart-Monitor is made with sophisticated sensors Four physiological signal prediction accuracies for two users were computed to verify the proposed Smart-Monitor system. An average accuracy of 97.2% was attained in the prototype Experimental setup. This demonstrates the dependability of the suggested automated system and the feasibility of accurate monitoring. We confirm the suggested system's ability to deliver dependable assistance and precise signal prediction based on the experimental findings.

No. of Pages : 6 No. of Claims : 3

(54) Title of the invention : Development of Smart Graphine Oxide-Iridium Oxide Nano Sensors for Corrosion Assessment of Steel in Concrete Infrastructure Structures

<p>(51) International classification :A61B 050000, C09D 050800, C23F 130600, C23F 130800, C23F 131000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SAVEETHA ENGINEERING COLLEGE Address of Applicant :Saveetha Nagar, Thandalam, Chennai - 602105, Tamil Nadu, India. Chennai -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)HIRUDAYASAMY DOLLI Address of Applicant :Associate Professor, Department of Chemistry, Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai -602105, Tamil Nadu, India. Chennai -----</p> <p>2)RAJENDRAN GANAPATHI RAMAN Address of Applicant :Associate Professor, Department of Physics, Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai -602105, Tamil Nadu, India. Chennai -----</p>
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(57) Abstract :

In the present work, the Graphene oxide-iridium (GO-IrO₂) nanomaterials has been evaluated as corrosion sensor embedded in reinforced concrete structures. Graphene oxide-Iridium oxide nanomaterial-based sensing element was prepared by electro deposition method. The Iridium oxide was deposited over Graphene oxide and the performance was evaluated using Electrochemical Impedance spectroscopy (EIS), Linear Polarization Resistance (LPR) and Scanning Electron Microscopy (SEM). The stability, reliability and micro reversibility characteristics of the sensors were monitored under simulated concrete environmental conditions were monitored for a period of 12 months. The test is conducted under an active and passive state of reinforcing steel in concrete with respect to Graphene Oxide-Iridium oxide sensor (GOIONS) and the results were compared with the surface mounting techniques. The electrochemical stability of GOIONS was found to be excellent in an active and passive condition and hence can be position onward as a promising new candidate material for corrosion monitoring in concrete structures.

No. of Pages : 27 No. of Claims : 7

(54) Title of the invention : Paper Microfluidic and lateral flow immunoassay technique based kit for detection of TSH

(51) International classification :A61P 430000, B01L 030000, G01N 335580, G01N 335640, G01N 337600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The paper microfluidic portable device for measuring TSH levels from finger prick blood samples is the subject of the invention. An immunoassay strip is used to test thyroid stimulating hormone (TSH) by introducing blood samples into a membrane that separates plasma from the blood. Antigens that are highly expressed in the sample are identified by labelling nanoparticles derived from plants, viruses, microorganisms, etc. This synthesis is environmentally beneficial due to the use of non-toxic and safe chemicals. Nitrocellulose membranes may be engraved using CO2 laser to generate constrained fluid flow paths, which slows down the fluid flow across test zones, allowing the detection of lower limit values. Based on the intensity variations in the test and control lines, a colorimetric assay is used to quantify the results. The idea of a paper microfluidic device makes it possible for individuals living in remote areas to keep a closer eye on their health without access to a doctor.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013023 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IMPACT OF ENGLISH EDUCATION TO STUDENTS IN GOVERNMENT SCHOOL OF INDIA

<p>(51) International classification :A61K 367400, G06Q 502000, G06Q 502600, G09B 050000, G09B 190600</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Saranya P Address of Applicant :Assistant Professor, English, VEL Tech Rangarajan Dr Sagunthala R&D Institute Of Science And Technology, Chennai - 600062, Tamil Nadu, India Chennai -----</p> <p>2)Dr. K. Deepika 3)Ms. Gagandeep Bhullar 4)Dr. M. Leena Chandrika 5)Dr. Chiragbhai Mahendrabhai Darji 6)Dr. Manoj As 7)Dr. K. B. Glory 8)Dr. Ashish Gupta 9)Dr. Sunita Chowdhury 10)Dr. W. Saranya 11)Dr. V. Kannan 12)Dr. M. Sandra Carmel Sophia 13)Mr. J Logeshwaran</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Saranya P Address of Applicant :Assistant Professor, English, VEL Tech Rangarajan Dr Sagunthala R&D Institute Of Science And Technology, Chennai - 600062, Tamil Nadu, India Chennai -----</p> <p>2)Dr. K. Deepika Address of Applicant :Assistant Professor, Education, Srm Institute Of Science And Technology, Kattankulathur - 603203, Tamilnadu, India Kattankulathur -----</p> <p>3)Ms. Gagandeep Bhullar Address of Applicant :Assistant Professor, Business Administration, Chandigarh Business School of Management, Chandigarh Group of Colleges (CGC), Landran, Mohali - 140307, Punjab, India Mohali -----</p> <p>4)Dr. M. Leena Chandrika Address of Applicant :Assistant Professor Selection Grade, English, Sri Ramakrishna Engineering College, Coimbatore - 641022 , Tamilnadu, India Coimbatore -----</p> <p>5)Dr. Chiragbhai Mahendrabhai Darji Address of Applicant :Associate Professor, Education, Children's University, Gandhinagar - 382021, Gujarat, India Gandhinagar -----</p> <p>6)Dr. Manoj As Address of Applicant :Head - Planning, Competency Development & Innovations, Government Projects, ICT Academy Of Kerala, Trivandrum - 695581, Kerala, India Trivandrum -----</p> <p>7)Dr. K. B. Glory Address of Applicant :Assistant Professor, Engineering English, Koneru Lakshmaiah Education Foundation, Vaddeswaram - 522302, Andhra Pradesh, India Vaddeswaram -----</p> <p>8)Dr. Ashish Gupta Address of Applicant :Professor & Head, English, Government Girls College, Betul (M.P.), Madhya Pradesh - 460001, India Betul -----</p> <p>9)Dr. Sunita Chowdhury Address of Applicant :Associate Professor, Management (Pgdm), G L Bajaj Institute Of Management & Research, Greater Noida - 201306, Uttar Pradesh, India Greater Noida -----</p> <p>10)Dr. W. Saranya Address of Applicant :Associate Professor, B Com Pa, Sri Ramakrishna College Of Arts & Science, Coimbatore - 641006, Tamilnadu, India Coimbatore -----</p> <p>11)Dr. V. Kannan Address of Applicant :Managing Director, CLDC Research And Development No.997, Mettupalayam Road, Near X-Cut Signal, R.S.Puram, Coimbatore - 641002, Tamil Nadu, India Coimbatore -----</p> <p>12)Dr. M. Sandra Carmel Sophia Address of Applicant :Professor, English, KL Deemed To Be University, Green Fields, Vaddeswaram - 522302, Andhra Pradesh, India Vaddeswaram -----</p> <p>13)Mr. J Logeshwaran Address of Applicant :Research Scholar, Department Of Electronics And Communication Engineering, Sri Eshwar College Of Engineering, Coimbatore, Tamil Nadu, India Coimbatore -----</p>
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(57) Abstract :
English education has had a positive impact on students in government schools across India. English language proficiency is essential for students to be able to compete in the job market, and English education provides students with the necessary skills to do so. English has also enabled students to access new technology and resources, as well as opened up vast new opportunities for them. English education has helped students become more confident in their communication skills and enabled them to better express themselves. It has also helped bridge the gap between different socio-economic classes and has allowed students to interact with people from different backgrounds. Finally, English education has provided students with a new way to think and analyze, thus helping them to develop critical thinking skills. The education in government schools is often hindered by a lack of resources. Many of these schools lack the funds to provide students with textbooks, workbooks, or other learning materials. This can further limit their ability to learn effectively; as they are often unable to access the resources they need to become proficient in English.

No. of Pages : 9 No. of Claims : 10

(54) Title of the invention : A Flexible Battery Operated Palm Wheeler

(51) International classification :A61K 368890, H01M 046600, H01M 100400, H01M 501000, H01M 501160
 (86) International Application No Filing Date :PCT// :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number Filing Date :NA :NA
 (62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The removal of paints form wall or rust from any surface were still carried out manually which take longer time and decreases the quality of finish. Hence, to minimize the time taken for said process a new system has been developed that fits into the palm of the human hand. The benefit of this system is that it gripped on the palm of human hand and, the motion or movement of the system is controlled by movement of hand. The system comprises of a motor, grinding wheel, rechargeable battery, fixture to grip hand, a shaft to mount grinding wheel. The main objective to develop this system is to remove the paints on walls, rust from iron surface, cleaning of any intricate surface, hole cleaning and many more similar application. The main advantages of this system are light weight and the movement of the system is control by the movement of hand. The power system is mounted on the wrist of the operator that provides comfortable and long duration work. Hence, in this system grinding wheel is mounted on the shaft which is attached with motor. The motor is fixed on base cover, that is perfectly fix on the palm of hand. The thumb is free to switch on/off the system. The motor is powered by Li-ion rechargeable battery (10,000 Mhz), fix on the wrist of operator. The grinding wheel consists of abrasive particles and has rotation motion. To control the speed of grinding wheel a gear system may be used. The rotational motion of grinding wheel having abrasive particles provides easy and quick removal of paints from the wall or rusts from the surface or cleans any surface by abrasive action. If grinding wheel is replace with scrubber it is used for cleaning utensils, table, wall, floor etc.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013026 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PERFORMANCE EVALUATION OF INDIAN ORIGIN BANKS OPERATING OVERSEAS IN PRE-MERGER PERIOD

(51) International classification :B41J 022100, F25B 490200, G06F 110700, H01M 081000, H04W 801000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT PERFORMANCE EVALUATION OF INDIAN ORIGIN BANKS OPERATING OVERSEAS IN PRE-MERGER PERIOD Performance Evaluation of Indian origin Banks operating overseas in pre-merger period comprises of select Indian public & private sector banks overseas with that of all Indian banks overseas is reviewed in terms of deposits, loans and advances, total business, investments, borrowings etc. After a deep study with regard to certain banking operational indicators, Indian Banks overseas are definitely required to play a significant role in the global banking arena, at par with other International banks that are based overseas, in the international market. The performance of Indian banks overseas in terms of such operational indicators is based on the findings that are emerged out of this study and on the basis of existing global banking environment for Indian banks overseas. State Bank of India, having the highest number of international branches. Bank of Baroda initiated suitable deposit plans and strengthened its deposit base. It appears that except State Bank of India, all other select banks lagged behind in terms of Advances, Total Business and Investments. It is significant to notice that BOB, BOI & ICICI banks registered down trends in growth rate of Borrowings at the end of the study period.

No. of Pages : 26 No. of Claims : 13

(54) Title of the invention : Advance Data Security using Machine Learning and Internet of Things

(51) International classification :G01S 050200, G06N 030800, G06N 200000, H04L 093200, H04W 640000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT ADVANCE DATA SECURITY USING MACHINE LEARNING AND INTERNET OF THINGS Over the last decade, IoT platforms have been developed into a global giant that grabs every aspect of our daily lives by advancing human life with its unaccountable smart services. Because of easy accessibility and fast-growing demand for smart devices and network, IoT is now facing more security challenges than ever before. There are existing security measures that can be applied to protect IoT. However, traditional techniques are not as efficient with the advancement booms as well as different attack types and their severeness. Thus, a strong-dynamically enhanced and up to date security system is required for next-generation IoT system. A huge technological advancement has been noticed in Machine Learning (ML) which has opened many possible research windows to address ongoing and future challenges in IoT. In order to detect attacks and identify abnormal behaviours of smart devices and networks, ML is being utilized as a powerful technology to fulfill this purpose. In this survey paper, the architecture of IoT is discussed, following a comprehensive literature review on ML approaches the importance of security of IoT in terms of different types of possible attacks. Moreover, ML-based potential solutions for IoT security has been presented and future challenges are discussed.

No. of Pages : 19 No. of Claims : 7

(54) Title of the invention : PUBLIC TRANSPORT SYSTEM

(51) International classification :B60N 022400, B62D 012600, G06Q 203200, G07B 150200, G08G 011230

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 Buses are the most important public transport in India. With the developing world and the world globe heading towards digitalization, the transport system must also speed itself towards digitalization. We need to use digital money and adapt the new technologies for the services to be very satisfactory, we need smart and reliable system. More waiting time at the bus stops, balance money not given, less seats, etc. the developed smart application will automatically allocate the seats for the registered passengers, digital reservation of the tickets is encouraged and the mode of the payment can be selected as per your wish. Smart city can be initiated when the payment mode is cashless and it promotes digitalization. The ticket booking will generate and acknowledgement which will act as an e-ticket that will be verified by the bus conductor. For the convenience of the passengers who speak languages other than that of English, our application will be available in multiple language

No. of Pages : 6 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013056 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DRIVING LICENSE CHECKER(DLC) DEVICE

(51) International classification :A63H 173900, B60R 131000, C23C 162600, G06Q 300600, G06Q 502000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This paper deals with the application of augmented reality in urban environment.AR can be used in real time to identify people without license and reduce the rate of accidents. It can also be used to show a 3D model of a building before it is built. The project is based on augmented reality technology to identify drivers without license in roadways. At first it scans and check for face in real time then it verifies the face with database which has the list of persons who have license .If the face matched with the data it shows the details of the person if not matched they don't the person has no license. So, it will be useful for the cops to identify the people without license and also reduces the rate of accidents. When compared to foreign nation we are just at starting level of these technologies. These technologies are used in Crowded area to identify the people if any crime has occurred since their technologies on face recognition are well advanced than ours. So, we hope that we will develop and soon have technologies more than theirs.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013057 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATIC SEED FEEDER

(51) International classification :A01K 050200, A01K 390120, B65H 013000, G06T 071100, H01S 032300

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Currently, agricultural research is being conducted. Numerous problems beset the crucial plant nursery for the agricultural sector. The problems are the manpower shortage, the poor output rate, and the added manual effort required for the seed-feeding cultural sector. The problems are the manpower shortage, the poor output rate, and the added manual effort required for seed feeding. Planting in plant nurseries takes a long time since the seeds must be fed. Research is being done on automatic seed feeder devices to mitigate these problems in plant nurseries. The mechanism is composed of the frame, the hopper, the belt drive, the sewing motor, the conveyor, etc. The belt receives the brown mustard seed; this belt was designed specifically to transport seeds from one end to the other. The custom belt is made of conical-shaped perforations on sheet metal fixed to cloth. As the belt moves, the stripper plate reduces the number of excess seeds. After being dropped into the tray, those seeds are inserted into the stripper plate's perforations.

No. of Pages : 6 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013058 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SEMANTIC BASED WEB PAGE RECOMMENDATIONS FROM DEEP WEB CONTENTS USING WORDNET

(51) International classification :G06F 169580, G06N 030800, G06Q 501000, H04L 670200, H04L 693290

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The large volume of web resources and the dynamic nature of deep web, achieving the efficiency of data retrieval is a challenging issue. A two-stage framework, namely Smart Crawler, is used for efficient harvesting deep web interfaces. In the first stage, SmartCrawler performs site-based searching for center pages with the help of search engines, avoiding visiting a large number of pages. To eliminate bias on visiting some highly relevant links in hidden web directories, we design a link tree data structure to achieve wider coverage for a website. To achieve more accurate results for a focused crawl, SmartCrawler ranks websites to prioritize highly relevant ones for a given topic. The user query submitted to the application will be preprocessed. After preprocessing only root words will be taken and find Synonym, Hypernym and Hyponym and it will listed all the possible links related to the search. This method is efficient and effective for clustering search links with English texts.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013066 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IMPROVED PRIVACY-PRESERVING P2P MULTIMEDIA DISTRIBUTION BASED ON RECOMBINED FINGERPRINTS

(51) International classification :G06F 216200, H04N 214660, H04N 216300, H04W 040200, H04W 764000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The proposed system of this project is to perform recombined fingerprint with efficient, scalable, privacy-preserving and P2P-based fingerprinting system. Although the system proposed in this paper uses public-key encryption in the distribution and traitor tracing protocols, it must be taken into account that this encryption is only applied to short bit strings, such as the binary fingerprints and hashes, not to the content. TheFragments of the content are encrypted using symmetric cryptography, which is much more efficient. Very few anonymous fingerprinting schemes with P2P distribution have been suggested so far. In game theory is applied to develop a fingerprinting scheme where embedding occurs between peer buyers, but this approach requires multi-party secure protocols between buyers which may be difficult to apply in a real scenario. The proposal in is more attractive, since embedding occurs only for a few seed buyers and the fingerprint of the other buyers are automatically generated as a recombination of the fingerprints of their “parents” in a graph distribution scenario. However, the traitor tracing protocol presented in those references requires an expensive graph search and disturbs a few honest buyers who must co-operate with the authority to identify the source of an illegal re-distribution.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013068 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ONLINE SPAM FILTERING AND SECURITY ENFORCEMENT IN SOCIAL NETWORKS

(51) International classification :G06F 121400, G06F 169510, G06Q 101000, G06Q 500000, H04L 510000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

One major problem in today's Online Social Networks (OSNs) is to give users skill to regulate the messages posted on their own personal space to avoid that unauthorized data is displayed. OSNs give small support to these needs. In this thesis, we propose a system permit OSN users to have a straight control on the messages posted on their walls. The aim of this Project is to purpose and experimentally evaluate an automated systems called Filtered walls, able to filter unwanted messages from Online Social Network's (OSN) user wall. We implement some technique to avoid the unwanted messages display from user's time line. In this project we maintain a table, & store all unwanted messages, words, synonyms, and its related words. If some user wants to post any messages in his timeline, first it will check with table, if that timeline message matches with the stored word, than that message is blacklisted and it is not allow to post in his timeline.

No. of Pages : 6 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013106 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR USING INTERNET OF THINGS (IOT) AND MACHINE LEARNING IN AGRICULTURE FARMING

(51) International classification :A01G 310600, G06N 030800, G06N 200000, G06Q 203000, G06Q 500200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The system comprises a network of IoT devices including sensors, cameras, and actuators, wherein sensors are configured to collect data on soil moisture, temperature, pH levels, and nutrient levels, and the cameras are configured to capture images of crops, and the actuators are configured to control irrigation systems, fertilization systems, and other farm equipment; a cloud-based platform configured to receive and process the data collected by the IoT devices, the platform including a database configured to store historical and real-time data, and a plurality of ML techniques including neural networks, decision trees, and support vector machines configured to analyze the data and provide insights and predictions; and a user interface configured to display insights and predictions, wherein the user interface provides a dashboard displaying real-time data and historical trends, and alerts and notifications to farmers in case of abnormal conditions.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : A METHOD OF CHARACTERIZING AND EVALUATING A TARGETED DRUG DELIVERY FOR MALIGNANT TUMOURS

(51) International classification :A61P 350000, C07D 050600, C07D 051400, C12Q 016886, G06T 070000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to a method for characterizing and evaluating a targeted drug delivery system for malignant tumours. The method involves administering the drug delivery system to a patient with a malignant tumour and obtaining a tissue sample from the tumour site. The drug distribution in the tumour tissue is then measured and compared to a predetermined therapeutic threshold to determine if the drug delivery system is effective. The method also involves measuring the expression levels of tumour-specific receptors in the tissue sample and correlating the receptor expression with drug distribution in the tumour tissue. This provides a more targeted approach to anti-cancer therapy, allowing for optimization of drug delivery to tumour sites and improving therapeutic efficacy. The method can be repeated as necessary to optimize drug delivery efficacy and improve therapeutic outcomes.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : A Non-isolated triple port Interleaved boost converter for Multiple Power Supply Applications

(51) International classification :H01L 290800, H02M 010000, H02M 014200, H02M 031580, H03M 132700

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A Triple port interleaved DC-DC boost converter circuit is proposed in this paper. Many electronic circuit applications require multiple DC output voltages at different levels like a multi-level inverter. The use of separate power supply circuits increases the system size and consequently increases cost and weight. The proposed multiple-input multiple-output power conversion system integrates different sources and produces multiple outputs. The integrated operation demands only a single controller. As a result, the structure becomes simplified and consequently a reduction in cost and size. It makes it more suitable for different level power conversions. In this series, the proposed Triple port interleaved DC-DC boost converter is designed to produce two dependent outputs. The use of minimum components and simple control strategies is the advantage of this proposed circuit. The design and performance analysis of the proposed circuit is explained using MATLAB simulation and experimental results in detail to show its benefits.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013174 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : System and method of credit card fraud detection using machine learning

(51) International classification :G06N 050000, G06N 200000, G06Q 202400, G06Q 204000, G06Q 400200
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The recent advances of e-commerce and e-payment systems have sparked an increase in financial fraud cases such as credit card fraud. It is therefore crucial to implement mechanisms that can detect the credit card fraud. Features of credit card frauds play important role when machine learning is used for credit card fraud detection, and they must be chosen properly. This paper proposes a machine learning (ML) based credit card fraud detection engine using the genetic algorithm (GA) for feature selection. After the optimized features are chosen, the proposed detection engine uses the following ML classifiers: Decision Tree (DT), Random Forest (RF), Logistic Regression (LR), Artificial Neural Network (ANN), and Naive Bayes (NB). To validate the performance, the proposed credit card fraud detection engine is evaluated using a dataset generated from European cardholders. The result demonstrated that our proposed approach outperforms existing systems.

No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : SMART HOME ENERGY MANAGEMENT SYSTEM CONTROL THROUGH DEEP REINFORCEMENT LEARNING

(51) International classification :G05B 150200, G06N 030400, G06N 030800, G06Q 500600, H04L 122800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Smart Home Energy Management System control through Deep Reinforcement Learning is the proposed invention. The invention focuses on analyzing the factors responsible in smart home energy management system. The algorithms of deep reinforcement learning are used for the purpose.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : MONITORING AND FORECASTING OF ENVIRONMENTAL POLLUTION USING INTERNET OF THINGS AND ARTIFICIAL INTELLIGENCE

<p>(51) International classification :F24F 115800, G06N 030200, G06Q 203000, G06Q 300200, G06Q 501000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shaik Fayaz Ahamed Address of Applicant :Associate Professor, ECE, V R SIDDHARTHA ENGINEERING COLLEGE, Vijayawada, 520007 Vijayawada -----</p> <p>2)Sangeeta Parihar 3)Dr. Pratik Kumar Jagtap 4)Dr.Santosh Kumar Sharma 5)Dr.C. kandeepan 6)Dr.Bimla Pandey 7)Dr.Amit Kumar Pandey 8)Dr Sushant Bose 9)Mr. Davood Nihal 10)Sanjeevkumar Angadi 11)Suresh Palarimath 12)Prof. Rakesh Kumar Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shaik Fayaz Ahamed Address of Applicant :Associate Professor, ECE, V R SIDDHARTHA ENGINEERING COLLEGE, Vijayawada, 520007 Vijayawada -----</p> <p>2)Sangeeta Parihar Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY,JAI NARAIN VYAS UNIVERSITY JODHPUR Jodhpur -----</p> <p>3)Dr. Pratik Kumar Jagtap Address of Applicant :Assistant Professor Department of Chemistry Faculty of Science The ICFAI University Raipur Chhattisgarh Raipur -----</p> <p>4)Dr.Santosh Kumar Sharma Address of Applicant :Associate Professor, Faculty Of Education,Motherhood University,Roorkee (Haridwar) Utrakhand 247667 Roorkee -----</p> <p>5)Dr.C. kandeepan Address of Applicant :Associate professor &Head, Dept. Of Zoology, ArulmiguPalaniandavar College of Ars & Culture, palani PALANI -----</p> <p>6)Dr.Bimla Pandey Address of Applicant :Associate Professor,Education,Motherhood university,Roorkee,Distt - Haridwar (247661) Roorkee -----</p> <p>7)Dr.Amit Kumar Pandey Address of Applicant :Assistant Professor cum Junior Scientist , Mandan Bharti Agriculture College, Agwanpur Saharsa -----</p> <p>8)Dr Sushant Bose Address of Applicant :Professor & HOD/Physics Department, Shri Ram institute of Technology Madhotal Jabalpur -----</p> <p>9)Mr. Davood Nihal Address of Applicant :Junior Research Fellow, Centre for Marine Living Resources and Ecology (CMLRE), LNG Road, Puthuvype, Kochi- 682508 Kochi -----</p> <p>10)Sanjeevkumar Angadi Address of Applicant :Assistant Professor, Computer Science and Engineering, Nutan College of Engineering and Research, Pune, 411062 Pune -----</p> <p>11)Suresh Palarimath Address of Applicant :Lecturer, IT, University of Technology and Applied Sciences, Salalah, 211 -----</p> <p>12)Prof. Rakesh Kumar Singh Address of Applicant :Assistant Professor Department of Mechanical Engineering, Noida Institute of Engineering and Technology Greater Noida Greater Noida -----</p>
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(57) Abstract :

Monitoring and Forecasting of Environmental Pollution using Internet of Things and Artificial Intelligence is the proposed invention. The proposed invention focuses on continuously monitoring the environmental pollution. The invention will utilize the techniques of Artificial Intelligence along with Internet of Things to send alert messages in cases of emergency.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013251 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A METHOD TO DEVELOP GLASS-FIBER REINFORCED POLYMER

(51) International classification :A01H 030400, A61B 170000, B29C 708800, B82Y 300000, G06F 162100
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

A reinforced polymer assembly 100 used as insulation liner includes one or more pieces of glass fiber sheets 110, and a resin mixture 108 that include epoxy resin with 31% , hardener with 09%, perlite with 13%, aluminum oxide with 01%, and silicon carbide with 01% weight per weight of entire wet mass respectively. The assembly 100 is prepared through dipping of the one or more pieces of glass fiber sheets 110 into the resin mixture 108 for full and evenly coating before placing onto a mold 106 till desired thickness and shape is obtained. The steps in method 300 for preparing reinforced polymer includes selecting a mold design 102, obtaining 3-D print 104 to prepare mold 106, preparing resin mixture 108 and dipping cutting glass fiber sheets 110, and performing post-processing 116 as required for releasing of mold and to obtain finished assembly 122.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : AN INTERPENETRATING POLYMERIC NETWORK AND PROCESSES THEREOF

<p>(51) International classification :C11D 072600, G06F 211000, G06N 030800, G06Q 201000, G16H 406700</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF SCIENCE Address of Applicant :Sir CV Raman Rd, Bengaluru, Karnataka 560012, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MALAKAR, Amit Address of Applicant :Materials Engineering Dept, IISc, Bangalore, Karnataka 560012, India -----</p> <p>2)MISRA, Ashok Address of Applicant :Materials Engineering Dept, IISc, Bangalore, Karnataka 560012, India -----</p> <p>3)MANNA, Kunal Address of Applicant :Materials Engineering Dept, IISc, Bangalore, Karnataka 560012, India -----</p> <p>4)SENGUPTA, Ria Address of Applicant :Materials Engineering Dept, IISc, Bangalore, Karnataka 560012, India -----</p> <p>5)MANDAL, Samir Address of Applicant :Materials Engineering Dept, IISc, Bangalore, Karnataka 560012, India -----</p> <p>6)BOSE, Suryasarathi Address of Applicant :Materials Engineering Dept, IISc, Bangalore, Karnataka 560012, India -----</p>
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(57) Abstract :
ABSTRACT AN INTERPENETRATING POLYMERIC NETWORK AND PROCESSES THEREOF The present disclosure provides an interpenetrating polymeric network comprising: (a) a first polymer matrix of a polymer having an active hydroxyl group; (b) a second polymer of a zwitterionic monomer; and (c) a crosslinking agent, wherein the zwitterionic monomer polymerizes in-situ within the first polymer matrix; and the first polymer matrix and the second polymer are interconnected by the crosslinking agent. The present disclosure also provides a process to obtain the interpenetrating polymeric network as disclosed herein. The present disclosure also provides a use, a method and an article comprising the interpenetrating polymeric network.

No. of Pages : 32 No. of Claims : 27

(54) Title of the invention : Low-Cost SCADA System Based on ESP32, Raspberry Pi, Node-Red, and MQTT Protocols

(51) International classification :A61K 367300, E21B 410000, E21B 431200, H04L 671200, H04L 675620

(86) International Application No :PCT//
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 Filing Date :NA

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(57) Abstract :
 Low-Cost SCADA System Based on ESP32, Raspberry Pi, Node-Red, and MQTT Protocols Abstract: Growing energy cost and demand has motivated many organizations to achieve smart ways to monitor, control, and save energy. Smart automation can reduce costs while still satisfying energy demand. The residential, commercial, and industrial sectors can utilize the technologies of the Internet of Things (IoT) to manage energy consumption better. This paper presents a low-cost, open-source, and reliable Supervisory Control and Data Acquisition (SCADA) system for home monitoring and control system. The presented SCADA system consists of analog sensors, ESP32, Node-RED, and Message Queuing Telemetry Transport (MQTT) through local Wi-Fi to remotely access and control appliances. This system helps the users to monitor various conditions in the home, such as temperature, humidity, pressure, and light intensity. Thus, users can remotely monitor various devices such as lights, fans, heating/cooling systems, make decisions based on the feedback of sensors. In this, we will examine a low-cost Supervisory Control and Data Acquisition system with in-house data logging for a photovoltaic facility. The bulk of commercially accessible SCADA solutions are closed-source. These devices are typically costly and must be manually installed in each location. To achieve these goals, this research focuses primarily on establishing a low-cost, open-source monitoring solution. This SCADA system was created using the Raspberry Pi, Arduino, sensors, serial connection cables, and an open-source web view platform. Using this open-source platform, information on photovoltaics and the natural world may be managed, recorded, and displayed. The content management system Emoncms is run on the Debian distribution. Field instruments were connected to two distinct terminals. The transmission of data to two RTUs. RTU1 obtained it from a photovoltaic array, whereas RTU2 obtained it from the output of an inverter. Data in JSON format were sent to the Raspberry Pi. Emoncms switched to utilising Emonhub as its core module after this information began to flow. Before the data is displayed on the WebView in Emoncms, Emonhub purifies it. Moreover, data can be stored on the Raspberry Pi itself. Despite the fact that the data logging method was only evaluated for six hours, the results indicated that it could continue for much longer. Data for multiple time periods, ranging from one hour to one year, may be shown on an intuitive dashboard, enabling the evaluation of patterns.

No. of Pages : 10 No. of Claims : 8

(54) Title of the invention : MEASUREMENT OF ALPHA AND BETA RADIATION AROUND THE PHYSICS COMPLEX

(51) International classification :A61M 250100, A61N 051000, B01J 190800, C22F 011800, G01N 231600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT MEASUREMENT OF ALPHA AND BETA RADIATION AROUND THE PHYSICS COMPLEX Recognition strategies for atomic radiations depend on the cycles of excitation and ionization of molecules in the recognition medium by the entry of a charged molecule. The occurrence radiation might be a charged molecule or may cause the arrival of a charged molecule after some essential communication. Indicators are normally of two kinds; those, which produce a charge, beat following ionization of the medium and those, which produce an explosion of optical photons, which are then distinguished by a photomultiplier tube. By handling, the electronic signs delivered in appropriate ways the count pace either of the source, the action, or the portion identical to an individual still up in the air. To make these judgments understanding the type is essential of atomic change happening in the radionuclide being thought of, the-jj type and energy of the radiation being discharged and the cycles included when these radiations go thanks to the indicator. A reasonable decision of locators can then be made and the amount of interest not set in stone. Moreover, the innovative beta molecule locators utilizing plastic scintillators and different sorts of beta-beam counters were clarified concerning qualities of low energy beta-beam emanating radioisotopes. Late fast advances in natural matter and nanotechnology have brought regard for scintillators joining plastics and nanomaterials for a wide range of radiation identification. Thus, we give an inside and out survey on low energy beta producer estimation.

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : LOW COST MODULAR PNEUMATIC BICYCLE

<p>(51) International classification :B62J 012600, B62J 110000, B62M 030000, B62M 091000, B62M 250800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Sathishkumar Natesan Address of Applicant :3-91/3-89a, Pallakadu, Akkaraipatti (Post), Mallasamudram (Via), Rasipuram (Taluk), Namakkal (District) -----</p> <p>2)Madhusuthan A.V</p> <p>3)MONISH N.</p> <p>4)R Mugilan</p> <p>5)Jeeva R</p> <p>6)Harish R</p> <p>7)Navinjith Ajith</p> <p>8)Naveen Dsouza A</p> <p>9)INFANT KENETH X.</p> <p>10)M.ABDUL WAHAB</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Sathishkumar Natesan Address of Applicant :3-91/3-89a, Pallakadu, Akkaraipatti (Post), Mallasamudram (Via), Rasipuram (Taluk), Namakkal (District) -----</p> <p>2)Madhusuthan A.V Address of Applicant :32/C52 Third Mainroad Annanagar Chengalpattu -----</p> <p>3)MONISH N. Address of Applicant :No. 117, mariyamman kovil street, periyavarikkam, ambur. Thirpattur(dt) -----</p> <p>4)R Mugilan Address of Applicant :No.110/24 , gandhi street , chitlapakkam,chennai 64. -----</p> <p>5)Jeeva R Address of Applicant :No:9, Selva Vinayagar kovil street, Perungudi,chennai -----</p> <p>6)Harish R Address of Applicant :No:15/2 Subburayan 4th street 1st lane Nammalwarpet Chennai-12. -----</p> <p>7)Navinjith Ajith Address of Applicant :Hospital road, Neyyoor- 629802, Kanyakumari district , Tamil Nadu. -----</p> <p>8)Naveen Dsouza A Address of Applicant :No.44/26 8th Street Krishna nagar west tambaram Chennai. -----</p> <p>9)INFANT KENETH X. Address of Applicant :16B/31 ews, kannadasan 4th cross street, marai malai nagar, chengalpatu district -----</p> <p>10)M.ABDUL WAHAB Address of Applicant :Department of Mechanical Engineering, St.Joseph's College of Engineering, OMR, Chennai -----</p>
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(57) Abstract :

This project involves the design, construction, and development of a rear-wheel-drive pneumatic bicycle. This model's conceptual design was inspired by manually operated bicycles. The entire body resembles a bicycle that was operated manually. This pneumatic vehicle is suitable for both normal individuals and people with disabilities. Chain drive is used to transmit power from the back wheels. The chain sprocket is included with the full set-up for power transmission using the actuator's connecting rod. Due to the pressure at which air is supplied, the cylinder would provide a driving force when linked. The bicycle can only ever have one rider at a time. The project's primary components are an air cylinder, a solenoid valve, a pneumatic actuator, a power transmission chain, a sprocket wheel, and the rear wheel of a two-wheeled vehicle. The project's main structure is made of mild steel and fastened together using joints. At the conclusion of the project, the model is evaluated by numerous users, whose feedback is then documented and tested. While the compressed air bicycle's exhaust is only air, in practise it significantly lowers air pollution.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : PUNICAVACHA – A MAJOR DISEASE DETECTION AND CLASSIFICATION TECHNIQUE IN POMEGRANATE LEAF

(51) International classification :A61K 361850, G06K 096200, G06N 030400, G06N 030800, G06T 070000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

Crop cultivation and farming is a major and significant occupation in India and across the globe. The cultivation and farming heavily depends upon the fertility of soil, environmental and climatic conditions, and variety of nurturing techniques adopted by farmers of different regions. This results in fluctuations in the overall yield and imposes restrictions on the economic conditions of the Nation. Such fluctuations in the overall yield may occur due to inorganic farming, spraying of pesticides, in addition to geographical diseases found on different plants at early stage of growth. Pomegranate being one of the major medicinal and nutritional valued fruits in India plays an important role in maintaining good health of most of the people. Most of the Pomegranate plant diseases are caused by fungi, bacteria, and viruses. The fundamental challenge is to safeguard the Pomegranate plant from diseases. The proposed invention presents a product for detection, effective identification and classification of major diseases in Pomegranate leaf at an early stage using Image Processing Technique. The proposed system uses features such as Image Contrast, Pixel Correlation and Energy, Image Homogeneity, Inverse Difference Moment (IDM), Mean, Standard Deviation, Entropy, Root Mean Square (RMS), Variance, Smoothness, Kurtosis and Skewness in the effective identification of Major leaf diseases of Pomegranate at an early stage. Disease detection involves steps like image acquisition, image pre-processing, image segmentation, feature extraction and classification. Five different types of diseases classified are Bacterial Blight(Xanthomonas axonopodis pv. punicae), Cercospora punicae, Alternaria alternata, Fusarium oxysporum (Ceratocystis fimbriata) and Anthracnose. Implementation is carried out using MATLAB's Image Processing and Bioinformatics Tool Boxes. The results shows that SVM could effectively detect the disease spots and classify the given leaf image with an accuracy of 98.30%. Further, the system has been implemented on hardware platform to facilitate the working of the proposed prototype without the use of computing systems (Laptop / Desktop), making it a standalone embedded product. The invention "PUNICAVACHA" has been developed with the encompassment of Raspberry pi processor, a Raspbian Operating System with a Matlab Server and a Camera cape.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : A METHOD OF AUTOMATING DIGITAL TWIN FRAMEWORK FOR SUPPLY CHAIN MANAGEMENT IN INDUSTRY 5.0

<p>(51) International classification :G05B 194180, G06Q 100000, G06Q 100600, G06Q 100800, G06Q 101000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Karthik TS Address of Applicant :Visiting Post Doctoral Fellow at Department of Social and Applied Sciences, University Center Unifacvest, Lages- Brazil, South America ----- 2)Dr Mithileysh Sathiyarayanan 3)Dr Beatriz Lucia Salvador Bizotto Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Karthik TS Address of Applicant :Visiting Post Doctoral Fellow at Department of Social and Applied Sciences, University Center Unifacvest, Lages- Brazil, South America ----- 2)Dr Mithileysh Sathiyarayanan Address of Applicant :MIT Square Services Private Limited Neeraja Halcyon Villas, Banjara L/O Main Road, Horamavu Agara, Bangalore - 560043 Bangalore ----- 3)Dr Beatriz Lucia Salvador Bizotto Address of Applicant :Professor at Department of Social and Applied Sciences University Center Unifacvest, Lages- Brazil, South America -----</p>
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(57) Abstract :

Disclosed herein is a system and method managing digital twin framework in industry 5.0 based supply chain network. The system comprises one or more sensors (100); supply chain network (200); one or more smart devices (300); and an industry 5.0 based intelligent tool (400). The sensors (100) are operatively mounted near to entry and exit points of each physical units used in the supply 15 chain network (200), wherein the sensors (100) are configured to acquire real time data associated with product/service parameters employed in the supply chain network (200). The smart devices (300) are coupled with the sensors to remotely receive, record, and process the real time data of the product/services available in the supply chain network (200). The industry 5.0 based intelligent tool (400) is in 20 wireless communication with the smart devices (300). The industry 5.0 compatible intelligent tool (400) comprises an artificial intelligence module configured for: inputting the acquired data of the sensors into a machine learning model for data training; transforming the acquired data into a set of simulation data based on the data training; creating a replica of the physical units of the supply chain network (200) using the digital twin techniques; producing a warning signal/notification if any anomaly is about to be happened; and predicting possibilities of future states of the physical units involved the supply chain network (200). 5 Fig. 1

No. of Pages : 21 No. of Claims : 10

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(21) Application No.202341013316 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Power Operated Fastener Extracting Hand Tool and Method of Operating the Same

(51) International classification :B25B 071200, B25C 010400, B25F 050000, E21B 105670, G01N 335580
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: A Power Operated Fastener Extracting Hand Tool and Method of Operating the Same The present disclosure proposes a hand tool (100) to extract different types of fasteners such as screws, nails, and rivets from different types of workpieces. The fastener-extracting hand tool (100) comprises a fixed housing (102), a slider housing (104) and a gear unit (106). The fastener-extracting hand tool (100) can eliminate carrying or using multiple devices for removing fasteners. The fastener-extracting hand tool (100) can reduce human effort in extracting the fasteners from workpiece materials. The fastener-extracting hand tool (100) is simple to operate and effective in accomplishing several intended purposes. The fastener-extracting hand tool (100) is provided with improved components and arrangements that are inexpensive, dependable, and fully effective.

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO STUDY THE POSITIVE ASPECTS OF VARIOUS BIOENERGY SYSTEMS

(51) International classification :A61B 010600, A61B 050000, G06N 030800, G06N 050200, G06N 200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 Bioenergy is widely considered a sustainable alternative to fossil fuels. However, large-scale applications of biomass-based energy products are limited due to challenges related to feedstock variability, conversion economics, and supply chain reliability. Machine learning has proven to be a powerful tool for deriving insights from data. In this review, we describe ways in which machine learning has been leveraged to facilitate the development and operation of sustainable energy systems. We first provide a taxonomy of machine learning paradigms and techniques, along with a discussion of their strengths and limitations. We then provide an overview of existing research using machine learning for sustainable energy production, delivery, and storage. Finally, we identify gaps in this literature, propose future research directions, and discuss important considerations for deployment.

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : OPINION RELATION USING WORD ALIGNMENT MODEL FOR ELECTRONIC COMMERCE

(51) International classification :G06F 169510, G06F 403000, G06F 404500, G06Q 300600, H04N 218580

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Online shopping is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet. Nowadays online shopping is increasing gradually. More people are using these types of services with the help of the reviews and rating of the products from some specified websites. Those reviews are helpful to identify the originality or quality of the particular product. But every product has 1,2 n number of reviews. So to avoid reading all reviews the existing system try to get important opinion targets and opinion words. But this system uses nearest neighbor. It produces output with approximately. So to overcome this we propose a system. In Proposed system use word alignment model for aligning and getting the targets and words, after that we create opinion graph for identifying target and its corresponding word. So in every review opinion attributes are identified accurately.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013339 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Design & Fabrication of Semi-Automatic Seed Sowing Machine

(51) International classification :A01C 072000, B29L 310000, G06F 302000, G06F 303920, G06Q 100600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

[06] The basic objective of showing operation is to put the seed and fertilizer in rows at desired depth and seed to seed spacing, cover the seeds with soil and provide proper compaction over the seed. The recommended row to row spacing, seed rate, seed to seed spacing and depth of seed placement vary from crop to crop and for different agro-climatic conditions to achieve optimum yields. The comparison between the traditional sowing method and the new proposed machine which can perform several simultaneous operations and has a number of advantages. As day by day the labor availability becomes the great concern for the farmers and labor cost is more, this machine reduces the efforts and total cost of sowing the seeds and fertilizer placement. Accompanied Drawing [FIG. 1][FIG. 2]

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013342 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DYNAMIC AND EXTENSIBLE INDICATOR FOR GEOGRAPHICAL SEARCH ON ROAD NETWORK USING GENETIC ALGORITHM

(51) International classification :A61P 370400, G01C 213200, G06F 162900, G06N 031200, G08G 010100

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

Vehicle routing plays a major role in road networks. Vehicle routing will be optimized to find the best path from the road network. The objective comprises not only the cost due to the total travelling distance, but also the cost due to the total travelling time. A graph search technique is proposed known as Graph Search Algorithm (GSA) to solve the problem. The role of Fuzzy logic is to dynamically adjust the crossover rate and mutation rate after ten consecutive generations. Compared with other search methods such as branch and bound, standard GSA (without the guide of fuzzy logic), simulated annealing and tabu search, GSA will give the best output in randomly generated datasets. Simulation results show that GSA outperforms other search methods in all of the three various scenarios (path query, kNN, keyword based kNN query).

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013348 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PRIVACY PRESERVING AND PROFICIENT IDENTITY SEARCH TECHNIQUES FOR CLOUD DATA SAFETY

(51) International classification :C11D 033900, G05B 090200, G06F 213100, G06F 216200, H04W 120200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Cloud computing is a general term for anything that involves delivering hosted services over the internet .One important feature of cloud computing is its cloud storage. Cloud computing provides flexible data management and ubiquitous data access. However, the storage service provided by cloud server is not fully trusted by customers. Normally, the data are securely handled by an organization, but nowadays some employees sell their access specifications to the hackers for money. Searchable encryption could simultaneously provide the functions of confidentiality protection and privacy-preserving data retrieval, which is a vital tool for secure storage. In cloud computing, searchable encryption scheme over outsourced data is a key research field. In this paper, we propose an efficient large universe regular language searchable encryption scheme for the cloud, which is privacy-preserving and secure against the off-line keyword guessing attack (KGA). For sharing of data, AES algorithm is used. For encryption and decryption Visual-Cryptographic (VC) Encryption algorithm is used for the data to be more secure and reliable.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013349 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : APPLICATION FOR INTEGRATION OF BIRTH AND DEATH CERTIFICATE WITH SERVICES

(51) International classification :G06F 095400, G06Q 203800, G10L 130200, G10L 151800, H04L 093200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Civil Registration is a continuous, permanent, compulsory recording of the occurrence and characteristics of vital events, like births, deaths marriages etc. The primary objective of this is to give awareness about the government or legal Documents and its registration details as well as to help to register or apply for those documents. This also acts as a consultancy agency to assist the public. The main purpose of the web site is to reduce the effort by the candidate and save his time and avoid unwanted rushes at the Government offices and assure a smooth working schedule at government offices. The essential inspiration driving the site is to reduce the effort by the user and reduce his time and avoid bothersome floods at the organization work environments and certification a smooth working timetable at government working environments. The generation of death certificate stops the services such as Aadhar card, PAN card, Driving License, other related RTO services, Bank account, etc. that are given to the corresponding person.

No. of Pages : 8 No. of Claims : 7

(54) Title of the invention : A method of fabrication and characterization of transparent solar panels for mobile devices

(51) International classification :F21S 090300, F24S 104000, F24S 402000, H01L 310224, H02S 202300

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention presents a method for fabricating and characterizing transparent solar panels for mobile devices. The transparent solar panels are designed to be integrated into the screens or casings of mobile devices, generating electricity from sunlight while maintaining the aesthetics and functionality of the device. The fabrication process involves the use of a transparent conductive oxide layer, photoactive material, and a second TCO layer to protect the photoactive material. The resulting solar panel is characterized to assess its efficiency and performance. The transparent solar panels offer a promising solution for powering mobile devices in an eco-friendly and efficient way, reducing dependence on fossil fuels and mitigating climate change. They also have potential applications beyond mobile devices, such as in building windows or vehicle windshields, providing renewable energy for electric vehicles.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : MULTI-KEYWORD SEARCH WITH DATA INTEGRITY OVER ENCRYPTED CLOUD DATA

(51) International classification :G06F 216000, G06F 216200, G06F 216400, G11C 150400, H04N 057826

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Due to the increasing popularity of cloud computing, more and more data owners are motivated to outsource their data to cloud servers for great convenience and reduced cost in data management. However, sensitive data should be encrypted before outsourcing for privacy requirements, which obsoletes data utilization like keyword-based document retrieval. In this scheme we present a secure multi-keyword ranked search scheme over encrypted cloud data. Specifically, the vector space model and the widely-used TF _ IDF model are combined in the index construction and query generation. We construct a special index structure to provide efficient multi-keyword ranked search. The secure AES algorithm is utilized to encrypt the data and meanwhile ensure accurate relevance information retrieval. Due to the use of index structure, the proposed scheme can achieve sub-linear search time of documents flexibly. The privacy of data is maintained by Third Party Auditor (TPA).

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013352 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IDENTITY BASED SECURE DATA STORAGE USING THIRD PARTY AUDITING AND KGC ALGORITHM

(51) International classification :G06F 215700, G06F 216200, G06F 217600, H04L 090800, H04L 093000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

A new three tier access control scheme for secure data storage in the server that supports security for authenticated user by using identity based RDIC (Remote Data Integrity Checking). A new construction of identity based RDIC protocol is used to overcome the existing issue of complex key management by using KGC(Key Generator Center) algorithm the cloud verifies the authenticity of the server without knowing the user's identity before storing data. Identity-based RDIC protocol to reduce the system complexity and the cost for establishing and managing the public key authentication framework in PKI based RDIC schemes.The cloud verifies the authenticity of the server without knowing the user's identity before storing data. Our scheme also has the added feature of access control in which only valid users are able to decrypt the stored information by using AES algorithm. The scheme prevents replay attacks and supports file Upload, Download, Comment, Delete and reading data stored in the cloud. We also address user revocation & Data Backup. Moreover, our authentication and access control scheme is decentralized and robust. We formalize ID-based RDIC and its security model including security against a malicious cloud server and zero knowledge privacy by using third party auditor. The cloud does not know the identity of the user who stores information, but only verifies the user's credentials.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : Wear & Flexural behavior of steel based metal matrix composite for application used in spur gear

(51) International classification :C22C 290400, C22C 380400, C22C 381200, F16H 481000, F16H 481100

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

Composite spur gear are now widely used in many power transmission applications. These gears have reduced weight, good strength and stiffness ratio with increased load carrying capacity here in this a reject a new material combination was decided for application of gears. Aramid powder dispensed with sheet metal matrix composites (MMC'S) was developed using reinforcement moulding effect of this combination, resulting in a significant increase in the flexural strength and wear resistance. This was done observing the various properties of the reinforcement content taken. Mechanical tests such as wear and flexural were conducted the mass ratio chosen was 05,10,15,20 and 25. In this study, what is enhanced. Hence we came to conclusion after from our analysis that steel based metal matrix composite can be alternate for spur gear making. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8] [FIG. 9] [FIG. 10] [FIG. 11] [FIG. 12] [FIG. 13] [FIG. 14] [FIG. 15]

No. of Pages : 25 No. of Claims : 3

(54) Title of the invention : ELHA-VR: Enhanced Learning of Human Anatomy using Virtual Reality

(51) International classification :A61M 250000, G06F 030100, G06T 190000, G06T 192000, G16H 503000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

ABSTRACT A virtual reality human anatomy exploration system referred to as ELHA-VR is disclosed. The proposed work outlined in this document involves the development of a virtual reality (VR) platform for exploring human anatomy. The patent involves several key steps, including the design and prototyping of a VR headset, hand-held controller, software, and virtual anatomical models. A hybrid environment for both sophisticated and low-cost devices was implemented for viewing anatomical structures. Multiple tools like Blender, A-Frame, etc were used for the model creation, optimization, and other key procedures in the development of the proposed work. The deployment strategies involving the usage of Cloudflare's Content Delivery Network for ensuring fast and reliable delivery of the 3D models and other important assets are also mentioned in the proposal. The validation of the realness of the models was done with the usage of an onboard modified MobileNet model that can run inside the environment. The model is capable of predicting important details in each frame to offer a measure of reality. The development process was aided by tools such as Chrome Dev Tools, A-Frame inspector, etc., which enabled the identification and resolution of issues that may affect performance or immersion. To sum up, the patent aims to create a seamless and engaging VR experience for students studying human anatomy. This Patent has arisen from the project is funded by iHUB DivyaSampark. A joint initiative of the Government of India Department of Science & Technology (DST) and Indian Institute of Technology (IIT Roorkee).

No. of Pages : 21 No. of Claims : 2

(54) Title of the invention : Design and analysis of brake disc made of SiC reinforced Aluminium metal matrix composite

(51) International classification :F16D 650200, F16D 651200, G06F 303980, G07C 050800, H01L 291600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

In this project analysis on the behaviour of the brake disc made of SiC – reinforced Aluminium metal matrix composite material and conventional grey cast iron material was conducted by Finite element software ANSYS 15.0. Modeling of the disc brake rotor is done by using SOLIDWORKS 2010. Meshing of Disc brake is done by using HYPERMESH software. Finally a comparison is made between conventional Grey cast iron and SiC reinforced Aluminium metal matrix composite material. The best material for making disc brake has been found which is based on the magnitude of Von Mises stress, temperature distribution and deformation from the analysis. Accompanied Drawing [FIG. 1][FIG. 2] [FIG. 3] [FIG. 4][FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8] [FIG. 9] [FIG. 10] [FIG. 11]

No. of Pages : 21 No. of Claims : 3

(54) Title of the invention : CONTEXT AWARE KNOWLEDGE DELIVERY AT POINT OF CARE USING BIOMEDICAL NLP FOR CLINICAL DECISION SUPPORT SYSTEM

(51) International classification :G16H 402000, G16H 502000, G16H 507000, G16H 702000, G16H 704000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Disclosed herein is method for extracting context features to design a clinical support architecture The knowledge discovery mechanism is a promising approach to support refined healthcare by assisting provider and patients to effectively and efficiently meet their knowledge needs at point of care. To improve the knowledge discovery mechanism, the proposed intelligent decision support system is trained to provide a supporting summary to the medical practioners and clinicians, on the basis of the ICD 9 codes and respective symptoms of the patient. The summary comprises of the accurate phenotyping, line of treatment, possible side effects, special care to take, etc for the patient with respective medical situation using the patient cohort. The context of the interaction between a user and a clinical information system will be used to predict the information needs that are most likely to occur and to retrieve content from EHR knowledge resources that may address these needs. We have used the BioALBERT model in this work which has been trained over biomedical corpora. It has been fine-tuned to extract context from an EHR system that can be used for clinical purposes. The proposed model uses improvised parameter sharing techniques and requires less physical memory. It implements the word piece embeddings through the sentence piece tokenization for the fine-tuning for contextual summary generation. The results generated by the proposed mechanism can be mainly used for Prediction, Detection and Diagnosis support. Fig. 1

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : PREDICTION AND EVALUATION OF EPILEPTIC SEIZURES BASED ON THE EEG DATASETS, DEVICES AND METHODS THEREOF

(51) International classification :A61B 050000, A61B 052910, A61B 053690, A61B 053750, A61P 250800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT PREDICTION AND EVALUATION OF EPILEPTIC SEIZURES BASED ON THE EEG DATASETS, DEVICES AND METHODS THEREOF The instant invention relates to the field of electro-encephalography (EEG), more particularly relates to an electro-encephalography-based epileptic seizure predictor and evaluator. The instant invention discloses the device and methods by which electro-encephalography is monitored for predicting and evaluating epileptic seizures. The concept behind the invention is, the monitoring device acts as a data Source and collects and monitors the EEG signals 24*7. In the trained data repository, the machine learning algorithm classifies extracts and learns the signals. Once the decision is made it is updated in the system and in case of any risk or possible seizures, the help alert is sent to the caretaker and medical support. Therefore, the invention is a medical technology that monitors the user’s EEG 24/7. The above-mentioned system will be helpful for people to predict and evaluate the chance of epileptic seizures.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013450 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Mango Seed Decorticator

(51) International classification :A01G 170000, A23N 070800, A61K 362200, B02B 030800, D01B 012400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT Mango Seed Decorticator A seed decorticator machine is disclosed. The machine has sharp pegs arranged in a helical manner around a rotor fixed around a shaft rotatably mounted on a frame. The pegs pass in between sharp pegs fixed on the frame, and by shearing action decorticate the seeds. Most illustrative Diagram: FIG. 2

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : DEVELOPMENT OF ECO-SMART ENERGY SAVING MANAGEMENT SYSTEM

(51) International classification :H04L 658000, H04W 240200, H04W 361600, H04W 520200, H04W 522400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Nowadays, optimized energy utilization plays a vital role because rapid industrialization and urban growth has led to serious impact on energy consumption and carbon emissions. Energy generation is moving towards renewable sources from coal, petroleum etc. (Non- renewable). Large scale food production industry face challenges in different sectors such as environment, mobility, waste and water management. This invention analyses the challenges of energy management system and improvises particularly for food industry. Generally, large scale food producing places are airports, railway stations, temples etc. This invention provides real time monitoring and predictive analytics of energy usage, alerts and notifications using a GSM module and automated system made using integration of sensors/transducers to reduce human efforts.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : Design and Development of solar PV system for Domestic application with Remote sensing and control

(51) International classification :C11B 090000, E02F 092200, F21S 090300, G06F 162500, G06Q 300600

(86) International Application No:PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to
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Filing Date :NA

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(57) Abstract :

Proposed here is a Solar energy management system, which takes into consideration both energy generation and consumption. It makes use of solar renewable energy source. The appliances are connected to either of the power supply according to availability of source. DC to DC Converter is used to drive and amplify the supply from solar panel. Power output from DC-to-DC converter will be given to charge the battery as well as load. A DC-DC converter plays a significant role resulting in widespread applications in maximizing energy harvest for photovoltaic systems and many more. We are implementing DC to DC converter and input will be solar panel. The output of this section will be interfaced with microcontroller will read the output. Maximum Power Point Tracking (MPPT) is needed to extract maximum energy from photovoltaic. The converter is designed based on the microcontroller, which has the role of controlling the circuit and producing PWM signals to regulate the DC-DC converter, we are using an application to have control over all the appliances connected to the circuit and get information about appliances connected to the circuit. For Example: State of Charge of Battery etc.

No. of Pages : 9 No. of Claims : 2

(54) Title of the invention : UNMANNED EXPLOSIVE NULLIFIER VEHICLE

(51) International classification :A47G 291400, B64C 270800, C06B 210000, C06B 471400, G01N 332200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The need for an electronically controlled all-terrain vehicle for detecting hidden explosives on the battlefield is crucial. This all-terrain vehicle infiltrates by monitoring enemy actions done to slow down & weakening militants. Main battle tanks are used to follow the path of the pilot tank operated manually to avoid damage to the battle tank and defence casualties of defence crews. In addition, post warfare the mines planted during the war can be detected and diffused by deploying a mine detection rover, which can save lives to avoid human casualties. The safety of humans was addressed and designed a rover with special equipment was employed to avoid obstacles. Arduino microcontroller is employed in this rover. The rover system is embedded with a metal detector capable of sensing the landmine by producing a warning signal to the nearby control centre in that area and is equipped with a remote arm for deactivation of explosives which creates a track free from hurdles. The locomotion is carried out by the DC motor. Rover can identify the position of the landmines which is designed in Arduino software. The modification will be applied for better strength, stability, performance and efficiency and the detachable drone will be integrated for easy movement also detection range can be increased in scabrous areas which will be implemented in future.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : Perovskite AlxSr1-xTiO3 for enhanced photocatalytic and memory Applications

<p>(51) International classification :B01J 350000, H01L 213160, H01L 430800, H01L 431200, H01L 490200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)REVA University Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, SH 104, Srinivasa Nagar, Bengaluru, Karnataka 560064 Bangalore -----</p> <p>2)Dr Prakash Babu. D. 3)S. VinodKumar 4)Dr S. Ponkumar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Prakash Babu. D. Address of Applicant :Department of Physics, School of Applied Sciences, REVA University, Rukmini Knowledge Park, Kattigenahalli, SH 104, Srinivasa Nagar, Bengaluru, Karnataka 560064 Bangalore -----</p> <p>2)S. VinodKumar Address of Applicant :REVA University, Rukmini Knowledge Park, Kattigenahalli, SH 104, Srinivasa Nagar, Bengaluru, Karnataka 560064 Bangalore -----</p> <p>3)Dr S. Ponkumar Address of Applicant :REVA University, Rukmini Knowledge Park, Kattigenahalli, SH 104, Srinivasa Nagar, Bengaluru, Karnataka 560064 Bangalore -----</p>
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(57) Abstract :

Series of (Al³⁺ doped SrTiO₃) Al_xSr_{1-x}TiO₃ NP (Nano particle) photo-catalysts were prepared by solid state technique. the synthesized materials were characterized using various analytical techniques like phase purity, composition, surface morphology, band gap. The band gap is 3.2 eV, and the crystalline structure is identified to be perovskite. The photo-catalytic behavior of Al_xSr_{1-x}TiO₃ was tested by the photocatalytic degradation of methylene blue (MB) under ultraviolet light irradiation. These results demonstrate the photocatalyst efficiency of Al_xSr_{1-x}TiO₃ which may be attributed to the band gap, high adsorbing of the dye molecules on the surface, large surface area, availability of large number of active centres on the surface and low electron-hole recombination. Al_xSr_{1-x}TiO₃ in addition, showed excellent stability against photocatalytic degradation even after numerous cycles. In order to show the photocatalytic performance of Al_xSr_{1-x}TiO₃, a suitable photocatalytic degradation mechanism has been proposed. Thin films of Al_xSr_{1-x}TiO₃ NP are Deposited on a substrate and test the I-V measurements which reveals the 0.5mol reveals the good results. are carried to confirm the degradation of MB dye by photo-catalysis mechanism.

No. of Pages : 17 No. of Claims : 2

(54) Title of the invention : Estimation Of Starch Degradation By Bacteria Through Liquid Culture Method

(51) International classification :B09C 011000, C12M 010000, C12N 012000, C12N 090000, C12N 092800
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

The invention discloses the novel method for screening of alpha-amylase production from bacterial culture. The bacteria culture grown in starch broth media composed of; beef extract - 0.15gm, peptone - 0.15gm and soluble starch - 0.1gm dissolved in 50 ml distilled water and set the pH 7.0. Pure bacterial culture inoculated in autoclaved starch broth media and incubated for 24 hours at 37 0C. Overnight grown culture filtered through the 0.22 µm filter membrane and collected filtrate used for assay in fresh test tube. 10mM sodium phosphate prepared by dissolving sodium dihydrogen phosphate (NaH₂PO₄) and disodium hydrogen phosphate (Na₂HPO₄) of 0.889g and 0.780g respectively in 50 ml of double distilled water and adjusted the pH 7.0. Starch solution is prepared by dissolving 0.20g in 20 ml of 10mM sodium phosphate. Further diluted to 2mg/ml in same sodium phosphate buffer. 1% of Iodine solution was prepared by mixing 0.5g of Iodine crystals and 1g of potassium iodide in 50 ml of distilled water. 200µl of culture filtrate added to 800µl starch solution and kept for 1 hr at 37 0C for enzymatic reaction. Then 100 µL of 1% iodine solution was added and taken absorbance at 565 nm in UV-vis spectrophotometer. The decrease in absorbance reflects the less concentration of starch-iodine complexes in reaction mixture compared to control

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : Synthesis And Characterization Of Cementious Materials From Recycled Clc Block Dust

(51) International classification :B32B 052600, C04B 030000, H04L 010000, H04L 011800, H04W 720400
 (86) International Application No :PCT//
 Filing Date :01/01/1900
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(57) Abstract :

In the present scenario where the constructions are increasing, the need to find a supplementary Cementing material for the improvement of strength and which has less environmental effects is of great significance. In the present work the possibility of utilizing cellular lightweight concrete block dust as partial replacement of cement. The basic properties like consistency, specific gravity was determined and compare with ordinary Portland cement. SEM, EDX and XRD analysis is also performed for chemical composition and crystallography of utilizing cellular lightweight concrete and block dust. The result of the study shows that up to 20% replacement of cellular lightweight concrete block dust gives more strength that normal mortar cube. However, large levels of replacement lead to delayed hydration of the mix and porous microstructure and consequently lower compressive strength of cube. From the XRD analysis of cube sample shows that 20% replacement of cellular lightweight concrete block dust has more calcite component than 0% replacement of mortar cube.

No. of Pages : 18 No. of Claims : 3

(54) Title of the invention : Faulty Camera Automation in Building Utility

(51) International classification :B64D 470800, B65C 094000, G03B 175600, G11C 290000, H02M 013200

(86) International Application No :PCT//

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

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(57) Abstract :

Closed circuit televisions (CCTV's) have been one of the crucial facilities in various domains of our day-to-day life, in recent years. Surveillance, monitoring and recordings are major IT facilities in many avenues. CCTV's are placed all over the places so as to cover majority of surveillance target area and the main role comes into effect by providing the useful data by capturing the real time video, detecting the threats by running algorithms predefined or viewing the past incident to see for any evidences. For smooth functioning of all such activities, CCTV's should be connected to a network and the backbone should be stable so that there is no missing data of interest and the network should be able to provide proper storage and communicating provisions of this data to the interested destinations. One major challenge faced by such systems is monitoring of deployed camera's (NVR/DVR) as there would physical theft or damage by miscreants and it has to meet the cyber security constraints or faulty physical in real systems. The problem faced by the monitoring team to identify the faulty cameras and formulate the solution to overcome by providing the exact offline devices, which are connected to a given network at any given point of time. In this document, we have come with an approach by pinging all Video Surveillance devices connected to a given network and by excluding those devices which are not to be considered (exclude devices consists of test cameras). The devices which do not responds will be pulled into a DB log and this log will be used to create a tableau dashboard and the logs will be used by the operational team to troubleshoot the cameras issues if it can be rectified or else a separate team will be headed to replace the cameras, so by this activity a lot of manual effort will be minimized which saves cost and security threats can be avoided to safe guard the organization vulnerability will be reduce to deal with.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013460 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Wireless Charging of Electric Vehicles with Online Monitoring System

(51) International classification :B60L 533000, H02J 070000, H02J 070200, H02J 501000, H02J 501200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Wireless Power Transfer (WPT) utilizing attractive reverberation is the innovation which could set human free from the irritating wires. Indeed, the WPT embraces a similar essential hypothesis which has just been created for something like 30 years with the term inductive power exchange. Recently WPT innovation is growing rapidly at control level. The makes the WPT very useful to the electric vehicle (EV) charging applications in both stationary and dynamic charging situations. This project surveyed the advancements in the WPT to EV remote charging. By presenting WPT in EVs, charging system can be effectively relieved. Battery innovation is never again pertinent in the mass market entrance of EVs. It is trusted that specialists could be supported by the cutting-edge accomplishments and push forward the further improvement of WPT just as the extension of EV.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013462 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : BVS DETACHABLE, SELF-LOADING, ECO-FRIENDLY, REUSABLE TOOTHBRUSH

(51) International classification :A46B 150000, E02F 036400, E02F 036500, G11B 056000, H01L 212650
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

TITLE: BVS DETACHABLE, SELF-LOADING, ECO-FRIENDLY, REUSABLE TOOTHBRUSH APPLICANT: 1. SRI BALAJI VIDYAPEETH, 2. SCHOOL OF PHARMACY, SRI BALAJI VIDYAPEETH, 3. INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES ABSTRACT The present invention discloses a BVS Detachable, self-loading, eco-friendly, reusable toothbrush[1]. The toothbrush[1] of the present invention comprises of a head region[2], middle region[3] and a handle region[4] secured together thereby forming a unitary structures characterized in that a. the head region[2] comprises of external layer[5] forming boundary to extend to the middle region[3] and to receive a detachable inner layer[7] by ball and socket method and comprises of upper bristles layer[8] with holes[9]; intermediate layer[10] with a hole[11] and a bottom layer[12]; b. the middle region[3] comprises of hollow bulge tubular structure housed with a capillary tube[13] and a spring mechanism with a spring motion button[15] having two springs, one spring[16] in upper region and another spring[17] in lower region; c. the handle region[4] comprises of a hollow bulge tubular structure having a tooth paste holder[18] orifice in the middle to receive a detachable toothpaste cartridge[14].

No. of Pages : 25 No. of Claims : 6

(54) Title of the invention : DRIVER INATTENTION MONITORING SYSTEM USING CONVOLUTIONAL NEURAL NETWORK

(51) International classification :A61P 251800, B60K 280600, G06K 096200, G06N 030400, G06N 030800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The aim is to create an intelligent processing scheme to avoid road accidents. This can be done by period of time monitoring the drowsiness and warning driver of inattention to prevent accidents. The proposed drowsiness detection and correction system will be capable of detecting drowsiness in a rapid manner. The system will differentiate normal eye blink and drowsiness which can prevent the driver from entering the state of sleepiness while driving. Proposed system works well even in case of drivers wearing spectacles and under low light conditions also. During the monitoring, the system is able to decide if the eyes are opened or closed. When the eyes have been closed for about two seconds, the alarm beeps to alert the driver and the speed of the vehicle is reduced. And will provide a solution for monitoring driver's drowsiness. The construction of the existing system in extracting only selected hand-crafted features is overcome by using custom designed CNN by giving an input driver image. The driver will be continuously monitored by a PI-CAMERA and the video captured is converted into a sequence of frames. For each frame, the face and eye are detected using predefined classifiers available in OpenCV called HAAR cascade classifiers. Eye images are extracted and sent to Raspberry-pi imager. A score is calculated based on eye closure. If both eyes are closed consecutively in 15 frames then the system predicts as drowsy and an alarm sound is triggered to alert the car operator. By doing this many accidents will reduced and provides safe life to the driver and vehicle safety.

No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : A PROCESS OF PREPARATION OF TOPICAL SKIN LOTION AND PRODUCT THEREOF

(51) International classification :A61K 083600, A61K 090000, A61K 311550, A61P 170000, A61Q 190000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :**TITLE: A PROCESS OF PREPARATION OF TOPICAL SKIN LOTION AND PRODUCT THEREOF APPLICANT:**

AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN ABSTRACT The present invention discloses a process of preparation of topical skin lotion exhibiting appreciable moisturizing ability, sun protection factor and a skin lightening effects. The process of the present invention comprises of: a. characterized in preparation of nail mediated gold nano-particles comprises of: i. adding nails to water and sonicated in Ultrasonic cleaner followed by filtration to obtain capping agent (HN28) in which residue is discarded; ii. treating auric chloride with the capping agent (HN28) and allowed to place under sunlight for solar irradiation to form nail mediated gold nano-particles in which change in colour from colourless to pale pink indicates formation of gold nano-particles; b. preparation of oil phase comprises of mixing Paraffin wax and emulsifying wax followed by heating; c. preparation of aqueous phase comprise of mixing Glycerol, nail mediated gold nano-particles, Cetyl alcohol, TiO₂ followed by heating; d. adding the aqueous phase of step (c) to the said oil phase of step (b) drop wise with continuous stirring and heating to form the topical skin lotion. The present invention also discloses a topical skin lotion exhibiting appreciable moisturizing ability, sun protection factor and a skin lightening effects prepared by the process as described above.

No. of Pages : 22 No. of Claims : 4

(54) Title of the invention : A PROCESS OF PREPARATION OF PROCESSED AMARANTH AND FLAX SEEDS GLUTEN FREE COMPOSITE BAKERY PRODUCT

(51) International classification :A01H 010600, A21D 130470, A21D 130660, A61K 362100, A61K 365500

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 TITLE: A PROCESS OF PREPARATION OF PROCESSED AMARANTH AND FLAX SEEDS GLUTEN FREE COMPOSITE BAKERY PRODUCT APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN ABSTRACT The present invention discloses a process of preparation of processed Amaranth and Flax seeds gluten free composite bakery product having increased bioavailability of nutrients with high consumer acceptability and functioning as a supplement for Attention Deficit Hyperactivity Disorder children. The process of the present invention comprises of: a. characterized in preparation of processed Amaranth and Flax seeds flour mix comprises of individually soaking, germinating, roasting, milling and powdering predetermined amounts of Amaranth seeds and Flax seeds followed by sieving and mixing with wheat flour of predetermined ratio to obtain the flour mix; b. preparation of dough comprising of adding predetermined amount of jaggery and butter to the flour mix followed by mixing, blending and kneading with water to form a soft dough; c. preparation of bakery product comprising of rolling the soft dough and cutting into predetermined shapes and placing on a greased baking tray and finally baking at predetermined temperature for predetermined time, allowing to cool completely, wrapping in polythene bags and stored airtight. The present invention also discloses a processed Amaranth and Flax seeds gluten free composite bakery product having increased bioavailability of nutrients with high consumer acceptability and functioning as a supplement for Attention Deficit Hyperactivity Disorder children, prepared by the process as described above.

No. of Pages : 18 No. of Claims : 4

(54) Title of the invention : A PROCESS OF PREPARATION OF INSTANT AACHAR POWDER FROM TAMARILLO FRUIT AND PRODUCT THEREOF

(51) International classification :A23B 070000, A23L 190000, A23L 331350, A61Q 190800, C08L 690000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 TITLE: A PROCESS OF PREPARATION OF INSTANT AACHAR POWDER FROM TAMARILLO FRUIT AND PRODUCT THEREOF APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN
 ABSTRACT The present invention discloses a process of preparation of Tamarillo aachar powder. The process of the present invention comprises of following steps; a. cleaning fully matured and ripened tamarillo fruits followed by blanching to obtain blanched fruit in which peel is discarded; b. chopping the peel less blanched fruit into pieces followed by drying to form dried fruit; c. dry roasting individually Bengal gram dhal, black gram dhal, curry leaves, red chilli, cumin seeds and garlic followed by mixing to form roasted spice mix; d. characterized in mixing the dried fruit of step (b) and the roasted spice mix of step (c) along with salt followed by blending to form instant Aachar powder in which the instant Aachar powder is stored in airtight container at room temperature. The present invention also discloses an instant Aachar powder rich in essential nutrients, phytochemicals and antioxidants with increased shelf life from tamarillo fruits prepared by the process as described above.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013524 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DESIGN OF STAND ALONE RENEWABLE POWER SUPPLY SYSTEMS BASED ON SOLAR ENERGY

(51) International classification :C25B 010400, F03D 090000, F21S 090300, H02J 033800, H02J 073500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

DESIGN OF STAND ALONE RENEWABLE POWER SUPPLY SYSTEMS BASED ON SOLAR ENERGY A design of stand alone renewable power supply systems based on solar energy. The system comprises a power conditioner circuit for properly conditioning said power from said renewable energy electric power generating system before it is connected to said grid, a power supply DC-AC inverter electrically coupled to the energy storage system to receive DC power therefrom and convert the DC power to an AC power output, the energy storage system comprising one or more energy storage devices, at least one gas separator being connected to the local tank through a conduit and the heat and power consumers in the house technique being coupled to the energy supply system, operating the at least one fully available energy source to supply sufficient DC power to the DC bus to supply an amount of power requested by a regulated AC power grid up to the maximum rated power of the at least one intermittently available renewable energy source, separators for the heat and / or power generation have separators for gas separation, low-temperature and / or high-temperature fuel cells. also formic acid fuel cells, catalytic burners, gas and / or electric heating plants, heat pumps, power generating plants such as internal combustion engines, generators, microturbines and cogeneration systems, ventilation and air conditioning units individually or in any combination and a high temperature superconducting wind turbine generator for generating electric power from wind, a support structure for housing said wind turbine generator.

No. of Pages : 17 No. of Claims : 1

(54) Title of the invention : Smart Kitchen Wardrobe System Based on IoT

(51) International classification :A47B 610000, A47J 432800, F24C 152000, G06Q 501200, H04L 671200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Smart Kitchen Wardrobe System Based on IoT Abstract: Growing energy cost and demand has motivated many organizations to achieve smart ways to monitor, control, and save energy. Smart automation can reduce costs while still satisfying energy demand. The residential, commercial, and industrial sectors can utilize the technologies of the Internet of Things (IoT) to manage energy consumption better. This paper presents a low-cost, open-source, and reliable Supervisory Control and Data Acquisition (SCADA) system for home monitoring and control system. The presented SCADA system consists of analog sensors, ESP32, Node-RED, and Message Queuing Telemetry Transport (MQTT) through local Wi-Fi to remotely access and control appliances. This system helps the users to monitor various conditions in the home, such as temperature, humidity, pressure, and light intensity. Thus, users can remotely monitor various devices such as lights, fans, heating/cooling systems, make decisions based on the feedback of sensors. Currently, every scientific study and technology development should aim to improve and simplify the lives of people. Make a note of the fact. This is due to the fact that Internet of Things home automation technology has shown promise in recent years as a means of widespread adoption in "smart homes." Our system improves the productivity of food stores by leveraging IoT. With the data from the intelligent container filling sensor, it is possible to learn more about the product. You may be able to access cloud-based data utilising the wireless protocol. This technique must be performed every day. Data reveals not only what we use most frequently, but also what we need to acquire and how much of everything we already have we must purchase. This data is accessible via your phone or any other mobile device. The user can modify the search criteria. This information suggests that you can order certain things. Now, any residence can connect to the cloud. By linking your device to the shop's cloud storage, you can receive home delivery of your goods without leaving your chair.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013583 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PROCESS FOR THE PREPARATION OF MESOTRIONE WITH HIGH PURITY AND HIGH YIELD

<p>(51) International classification :A01N 411000, C07C 150400, C07C 150600, H01L 273200, H05K 010900</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CRIMSUN ORGANICS PRIVATE LIMITED Address of Applicant :C-9, C-10 & C-11 Sipcot Industrial Complex Kudikadu, Cuddalore, Tamil Nadu-607005, India (IN) -- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Uday Raj Anand Address of Applicant :C/O M-77 (I & II Floor) M-Block Market Greater Kailash II New Delhi, PIN Code-110048, India (IN) Delhi ----- 2)Shiv Raj Anand Address of Applicant :C/O M-77 (I & II Floor) M-Block Market Greater Kailash II New Delhi, PIN Code-110048, India (IN) Delhi ----- 3)Mr. Sadagoparamanujan Nammalvar Address of Applicant :Crimsun Organics Private Limited, C-9, C-10 & C-11 Sipcot Industrial Complex Kudikadu, Cuddalore, Tamil Nadu-607005, India (IN) Cuddalore ----- 4)Dr. Valarivan Ruthrapathy Address of Applicant :Crimsun Organics Private Limited, C-9, C-10 & C-11 Sipcot Industrial Complex Kudikadu, Cuddalore, Tamil Nadu-607005, India (IN) Cuddalore -----</p>
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(57) Abstract :

ABSTRACT PROCESS FOR THE PREPARATION OF MESOTRIONE WITH HIGH PURITY AND HIGH YIELD The present invention relates generally to a process for the preparation of mesotrione of technical grade having high purity and high yield. The process involves simple steps and uses safe starting materials.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013584 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A THREE-DIMENSIONAL POWER MODULE AND A METHOD OF CONSTRUCTION THEREOF

(51) International classification :B65D 900200, H01L 230000, H01L 233100, H01L 250700, H01M 502400

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides for a three-dimensional power module (200) and a method of construction thereof. The three-dimensional power module (200) comprises a first power assembly (202) in a first plane and a second power assembly (204) in a second plane. The second power assembly (204) comprises a second positive metal track (210) and a second negative metal track (212). The second node element (224) is disposed between the second positive metal track (210) and the second negative metal track (212). The first plane is parallel to the second plane. A plurality of node tracks (230A-230B) and a lead terminal (232) are sandwiched between the first power assembly (202) and the second power assembly (204), wherein the three-dimensional power module (200) reduces thermal impedance and electrical impedance of circuits connected to the power module (200).

No. of Pages : 33 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013596 A

(19) INDIA

(22) Date of filing of Application :28/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : CORROSION INHIBITOR FOR MILD STEEL IN SIMULATED OIL WELL WATER MEDIUM

(51) International classification :C02F 090000, C09K 085400, E04H 090200, G01N 170000, H01Q 012400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Corrosion Inhibitor for mild steel in simulated oil well water medium using extract of nicotine along with curcumin, Allyl sulfide, Zn²⁺, Asafoetida. The effect of said extract in corrosion inhibition is analysed by weight loss method and electrochemical studies. The corrosion rate of mild steel and the inhibition efficiencies of the extract were calculated.

No. of Pages : 9 No. of Claims : 2

(54) Title of the invention : COMPREHENSIBLE ARTIFICIAL INTELLIGENCE TO ASSESS CORPORATE SECURITY OPERATIONS USING EEG DATA WITHIN IOT FRAMEWORK

(51) International classification :A61B 050000, A61B 053690, A61B 053740, G06F 216200, H04L 671200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention relates to a system and method for assessing corporate security operations using EEG data within an IoT framework. The system comprises a plurality of EEG devices worn by employees to record brain activity in the prefrontal cortex, a cloud-based server for real-time data transmission, machine learning module for analyzing the collected EEG data to determine the mental state of each employee, a user-friendly dashboard for presenting the system's outputs, and a security module configured to receive and act upon the system's recommendations in response to identified security risks.

No. of Pages : 22 No. of Claims : 9

(54) Title of the invention : DESIGN AND ANALYSIS OF WIND TURBINE BLADES

(51) International classification :F03D 010600, F03D 070200, F03D 092500, F03D 170000, G06T 070000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 [06] This work presents the experimental results of the electrochemical cells. The fabricated electrochemical cells are investigated experimentally in a single cylinder diesel engine. The emission characteristics of electrochemical cells were analyzed 5 and the results are discussed in detail in this work. All the results have been consolidated and analyzed for the development of efficient electrochemical cell. The effective electrochemical cell was chosen for testing in the biodiesel exhaust. The electrochemical cell was tested to measure NOx, HC, and CO emission reduction in the single cylinder diesel engine. The results obtained from the experiments are 10 explained in detail with necessary inferences. Accompanied Drawing [FIG. 1][FIG. 2] [FIG. 3] [FIG. 4]

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : Implementation of Driverless Car

(51) International classification :B60R 110000, B60R 110400, G01M 170070, G05D 010200, G06F 031200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A driverless car is the proposed invention wherein the common human errors while driving like distracted driving, drowsy driving, driving at high speeds and delayed reaction times of the drivers result which result in fatal accidents that cause loss of life and damage to property have been solved. A driverless car (or self-driving car or autonomous car) is a vehicle which can travel from one point to another by self-navigating without any human intervention by using sensors, cameras, radar, GPS, and AI (Artificial Intelligence). The implementation of a Driverless Car is carried using the Deep Learning algorithms, OpenCV, DonkeyCar, TensorFlow etc. and a dedicated hardware.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : A METHOD FOR ASSESSING IMPACT OF INDUSTRIAL CLUSTERS ON ENVIRONMENT

(51) International classification :G01M 070800, G01N 273330, G01N 290400, G01N 334970, G01N 335000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

One of the major contributors towards environmental degradation in forms of air, water and land pollution is pollutants released from industries. Pollution load in air, water, and soil is not just an environmental challenge, but synergistically a public health challenge as well. Recent industrialization in India has led to mushrooming of industrial clusters – a concentration of industries in one place. What follows is acute pollution caused by such a concentration, due to the discharge of pollutants – of air, water, and land, all in one place. This damages the surrounding environment severely, and poses serious health hazards for inhabitants of in and around the area. The objective of this work is to identify such industrial clusters, and classify them based on scientific criteria. Comprehensive Environmental Pollution Index (CEPI) is one tool which is incorporated for the present research. Performance of different industrial clusters are compared and have been categorized in terms of priority of need for interventions for containing of pollution and for restoring the environmental quality

No. of Pages : 13 No. of Claims : 2

(54) Title of the invention : BORE WELL RESCUE SYSTEM USING ROBOTIC ARM

(51) International classification :B23Q 030600, B25J 190000, C09K 086000, C09K 086800, C09K 088000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

[007] Bore well rescue system using a robotic arm. The project is used to rescue the child which fell down into the bore well hole. Nowadays more children were falling into the hole dug for the bore well without noticing it. Normally it takes up to eight to twelve hours for the people to rescue the child. Since a small delay in the rescue attempt may cause the life of the child. The robotic arm is lowered inside the borewell hole where the child is stuck, using an IR camera the child stuck in the borewell will be identified in its night vision mode and later on, the air brakes are used to stabilize the robotic arm. When the child is identified inside the borewell, a temperature sensor is used to detect the thermal signature of the child. Then the tiny pores present within the robotic arm start regulating oxygen to that region of the child's body which is nearest to the robotic arm's hold, which reduces the amount of sweat being released from the child's body due to fright and ensures a good grip to it. While the oxygen required for the child to breathe is regulated through the concentric region above the robotic arm. Once the regulation of the proper amount of oxygen required for the child to breathe is provided, a microphone is turned on to enable the communication between child and the officials. This enhances the ability of the child to overcome the fright. Once the communication is established, the IR camera gives a clear vision to the officials. Then with help of the IR camera, we can identify the nearest possible region of the child's body to get a catch hold of. Later on, the robotic arm takes hold over the nearest region by a stimulated operation of a human hand and slowly grabs the child upwards with the help of a rope.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : Demand Side Management Techniques For Residential Appliances in Smart Homes

(51) International classification :B60R 213400, B60W 100400, B60W 301800, G05B 150200, G06Q 500600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 The residential sector is a major contributor to the global energy demand. The energy Demand for the residential sector is expected to increase substantially in the next few decades. The demand response solution is considered the most effective and reliable solution to meet the growing energy demands. Demand side response management system operates according to multiple criteria, including electricity cost, peak load reduction, consumer comfort, environmental factors, etc. The system can be modelled as a virtual organization that seeks to minimize energy consumption while reaching a tradeoff between user comfort, energy cost and limiting peak energy usage.

No. of Pages : 21 No. of Claims : 3

(54) Title of the invention : DESIGN AND FABRICATION OF HYBRID ELECTRIC CAR

(51) International classification :B29L 310000, B60W 100600, B60W 100800, G06F 302000, G06Q 100600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The cost of fuel, particularly gasoline, is constantly climbing. Once more, the number of people who live in regions with high levels of air pollution because of cars and trucks keeps rising. The hunt for alternate energy sources for cars is an attempt to address these issues. With this in mind, efforts were being made to find a remedy for environmental degradation and a means of providing for monetarily disadvantaged people. The frame design can support up to 300 kilogrammes, and it has been outfitted with aluminum wheels, mono-shocks, and adjustable suspension to improve steadiness and ride quality. Battery management system (BMS)-equipped lithium-ion (Li-Ion) portable battery pack, 48 volts, 20 ah Disc brakes are used because they require little upkeep compared to drum brakes, and a 48-volt brushless DC (BLDC) engine with a 500-rpm output will be attached to the front chain idler. This project's major motivation is to make use of sustainable energy; consequently, solar and wind power are the primary sources of energy for movement. The 230v AC power supply is fed by electricity from 24v solar panels and 12v vertical axis wind turbines. Three different power types, including wind and sun, are used to recharge the electronic motorcycles. The manufactured electronic cycle can reach speeds of up to 35 km/h, can travel up to 50 km on a single charge, and takes only 50 minutes to fully recharge. Taking into account its benefits and the fact that future vehicles can be more cost-effective if they use renewable energy sources, the electric cycle is the most flexible future vehicle.

No. of Pages : 21 No. of Claims : 4

(54) Title of the invention : A Compact Inset-Fed 2x 2 E-Shaped Patch Antenna Array with and without DGS for High Frequency Multiband Applications

<p>(51) International classification :G01N 294400, H01L 235320, H01Q 090400, H01Q 210000, H01Q 210600</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Andhra University Address of Applicant :Visakhapatnam-530003 Visakhapatnam ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Pavada Santosh Address of Applicant :Research Scholar, Department of ECE, Andhra University College of Engg (A), Andhra University, Visakhapatnam, A.P. Visakhapatnam ----- 2)Swetha Velicheti Address of Applicant :Research Scholar, Department of ECE, Andhra University College of Engg (A), Andhra University, Visakhapatnam, A.P. Visakhapatnam ----- 3)Dr. P. Mallikarjuna Rao Address of Applicant :Professor in ECE, Department of ECE, Andhra University College of Engg (A), Andhra University, Visakhapatnam, A.P. Visakhapatnam ----- 4)Dr.M.Satya Anuradha Address of Applicant :Professor in ECE, Department of ECE, Andhra University College of Engg (A), Andhra University, Visakhapatnam, A.P. Visakhapatnam -----</p>
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(57) Abstract :
 ABSTRACT A Compact Inset-Fed 2x 2 E-Shaped Patch Antenna Array with and without DGS for High Frequency Multiband Applications This patent presents a single and compact 2x2 array E-Shaped Microstrip Patch Antennas (MPA’s) for Ku, K and Ka band applications. The proposed 2x2 array E-Shaped MPA has overall dimensions of 13.5 mm x 17.8 mm x 1 mm which is a very compact size for high frequency applications. The simulated results reveal that the proposed 2x2 array E-Shaped MPA is resonating at multiple bands such as (12.28-14.52 GHz), (17.74-20.68 GHz), (20.96-23.34 GHz), (31.04 – 33.8 GHz) and (36.64 – 40 GHz) with max bandwidth of 5.6 GHz, Return loss below -10dB, VSWR<2 and a Peak Gain of 7.4 dB. RT duriod is used as a substrate with dielectric constant of 2.2 which is very much suitable for high frequency applications

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : “IOT-BASED PREDICTIVE HOTEL ARRIVAL USING KEYLESS ENTRY SYSTEM”

(51) International classification :B23B 311200, B60R 252400, E04H 030200, G07C 090000, G07C 092700
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The invention relates to the field of a modular electronics system for interfacing with and controlling internet-of-things (IOT) devices, and more specifically to an IOT-based predictive hotel arrival using keyless entry system. The IoT-based predictive hotel arrival system includes a network of sensors, cameras, and control devices connected to a central processing unit (CPU) configured to receive and process data from keyless entry systems used by guests to access hotel rooms, a machine learning algorithm configured to analyze the data collected by the sensors and cameras to predict the arrival time of guests, a user interface for guests to provide their preferences and receive personalized services based on the predictions made by the algorithm, and a control system for hotel operations that is optimized based on the predictions made by the algorithm.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013684 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : NANOCOMPOSITE SLOW-RELEASE NANO FERTILIZER AND METHOD THEREOF

(51) International classification :A01C 150000, B82Y 300000, B82Y 400000, C05G 030000, C05G 034000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

NANOCOMPOSITE SLOW-RELEASE NANO FERTILIZER AND METHOD THEREOF The present invention discloses a nanocomposite nano fertilizer comprising lignin as carrier, chitosan as binder, citric acid as crosslinker and urea as fertilizer. This nanocomposite nano fertilizer is produced by crosslinking mechanism due to the electrostatic attraction among the compounds. This method makes it possible to entrap urea containing 30-35% N, with prolonged slow- release of nitrogen.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013712 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Application Design for Technical Instrumentation using Virtual Reality Shopping

(51) International classification :G02B 270100, G06F 030100, G06F 082000, G06Q 300600, H04N 133440
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Using Search Engines, we feel more difficulties such as lack of variety of Products, no variety of competitors around us and flexible showcase of many types of Equipment and accessories in several fields such as Engineering, Medical, Bio Laboratories and other Research centers. Then, customers seek for trusted sites and price comparison under same variant of specific Products. Mode of purchase and approaching authorized Dealers to compare price is still being a challenging for every individual users unless having a same repeated Representative. By this, advanced and updated products will not come under our knowledge. To get rid of these difficulties, this Application (Core Shoppe) has introduced to experience a flexible marketing virtually without the help of Representative. This App enhances the craving of exploring the updated instrumentation and its accessories among the other competitive organizations. This App is exclusively made for completely Technical firms such as Engineering, Bio Medical, Medical and other R&D's instrumentations. Instrumentations are provided on screen such as Microscopes, Precision Measuring instruments and their initial preparing machines such as sample preparation machines along with their accessories. This App is exclusively provided for Core field and going to apply for other related firms (future) so, that's why the job title is named as mentioned above. Accompanied Drawing [FIG. 1]

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013713 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : MACHINABILITY ANALYSIS OF JUTE FIBER REINFORCED EPOXY POLYMER COMPOSITES

(51) International classification :B82Y 400000, C01B 321740, C08J 050600, H05K 030000, H05K 033800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

Fiber reinforced polymer composites are playing a major role in variety of applications because of their light weight, high specific strength and modulus. The fibers used as reinforcement in composites may be synthetic or natural. Earlier research shown that synthetic fiber reinforced composites such as glass, carbon, aramid, kelvar, etc. posses better mechanical properties but field of applications are very limited because of their higher cost and increased weight. To overcome these, now a day's natural fiber reinforced composites are widely used in most of the applications because of their recyclability, easy availability and low cost. Drilling is one of the important machining operations which are required to facilitate the assembly of parts to get the final product. Drilling in composite materials may induce some problems including poor surface roughness and delamination. The present work concentrates on the fabrication and study of effect of machining parameters on drilling of natural fiber hybrid composites. Natural fiber polymer composites which consist of human hair and jute as reinforcement and epoxy LY556 as resin with three different set of fiber volume fractions were fabricated. Drilling operation is performed on these natural fiber hybrid composites and most contributing machining parameters for surface roughness and delamination were analyzed by Taguchi method. Accompanied Drawing [FIG. 1][FIG. 2] [FIG. 3] [FIG. 4][FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8] [FIG. 9] [FIG. 10] [FIG. 11] [FIG. 12][FIG. 13]

No. of Pages : 26 No. of Claims : 3

(54) Title of the invention : MECHANICAL PROPERTY ANALYSIS OF DELONIX REGIA FIBER REINFORCED POLYESTER COMPOSITES

<p>(51) International classification :A61K 364800, C08J 050400, C08J 052400, G05D 010000, G06Q 501800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)A. Sarath Kumar Address of Applicant :UG Student, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 ---</p> <p>-----</p> <p>2)R.Sri Hari 3)S.P.Suriya Prakash 4)A.Avinash Kumar 5)Dr.M.P. Natarajan 6)Dr.K. Selvakumar 7)Dr.V. Balambica Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)A. Sarath Kumar Address of Applicant :UG Student, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 ---</p> <p>-----</p> <p>2)R.Sri Hari Address of Applicant :UG Student, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 ---</p> <p>-----</p> <p>3)S.P.Suriya Prakash Address of Applicant :UG Student, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 ---</p> <p>-----</p> <p>4)A.Avinash Kumar Address of Applicant :UG Student, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 ---</p> <p>-----</p> <p>5)Dr.M.P. Natarajan Address of Applicant :Professor, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 -----</p> <p>-----</p> <p>6)Dr.K. Selvakumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 ---</p> <p>-----</p> <p>7)Dr.V. Balambica Address of Applicant :Professor, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai- 600 073 -----</p> <p>-----</p>
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(57) Abstract :

Composite materials have boundless engineering application, for certain applications; the use of composite materials as compared to metals has in fact resulted in saving both weight and cost. In aerospace approximately 50% of the airframe is made from composites due to their high specific strength, light weight and stiffness. Natural fiber is a very potential candidate in making of composites, especially for partial replacement of high-cost glass fibers for low load bearing applications. Sterculia Foetida fiber is a source of natural fiber which is abundantly available in India, till date Sterculia Foetida is known for its medicinal value and extraction of edible oil, but is less explored in the field of composites. The present work deals with investigating the effect of Sterculia Foetida fiber when mixed with coconut coir fiber. Epoxy LY 556 along with hardener HY 951 is used as the matrix material for fabricating this composite. Extracted fibers were chemically treated with 6%NaOH (i.e.) 6 grams of NaOH diluted in one liter of distilled water. Hand lay-up process is used for fabricating this composite. The matrix percentage is kept as 80% for all the composite samples and the percentage of fiber is varied as 15:5, 10:10, and 5:15 percentages of Sterculia Foetida fiber and coir fiber respectively. The laminates are fabricated using hand layup technique and the fabricated laminates are prepared for testing. Various mechanical properties of Sterculia Foetida fiber reinforced hybrid composites were studied. Study revealed that mechanical properties increases with increase in percentage of treated Sterculia Foetida with coir reinforced composites. Accompanied Drawing [FIG. 1][FIG. 2] [FIG. 3] [FIG. 4][FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8] [FIG. 9] [FIG. 10] [FIG. 11] [FIG. 12][FIG. 13] [FIG. 14][FIG. 15] [FIG. 16] [FIG. 17][FIG. 18] [FIG. 19] [FIG. 20][FIG. 21][FIG. 22]

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013719 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : HEAVY VEHICLE WEIGHT REDUCTION BY USING COMPOSITE MATERIAL OF ARAMID & ARMOUR STEEL

(51) International classification :A61K 450600, B29C 703400, B29L 313000, B60G 090000, F41H 050400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The future combat scenario will undergo a sea change as compared to the conventional and un-conventional warfare employed by the traditional armies and non-state actors. Most previous efforts to lighten Heavy Vehicle vehicles have focused on overcoming weaknesses in existing materials, but researchers are now developing revolutionary laboratory materials with potentially extraordinary properties. It's not about fixing the materials of today. It's about what materials we will need tomorrow. For weight savings, what percentage can we get from specific material applications? Beyond those weights, what do we need to invest in terms of materials, processes and manufacturing to get that material applied onto a system. Steels have been widely used as armor materials in defense applications, but they have the disadvantage of a relatively high density. Hence, they are not suitable for lightweight armor production. On the other hand, laminated composites have important potential on the reducing armor weight compared to steels for the same ballistic protection. Accompanied Drawing [FIG. 1][FIG. 2] [FIG. 3][FIG. 4][FIG. 5][FIG. 6][FIG. 7]

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013722 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Quality improvement through defect analyses and control

(51) International classification :B29C 451400, C12N 158200, H02J 031800, H04M 034200, H04N 194600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

[6] Customer satisfaction is the always a main task for a running mass production center to obtain regular order and to improve the product with very low rejection. Now days customer it's not allowing a signal part with defect even the order be a million. Each on every part begging inspection thoroughly through automation and defect components and taken into account as PPM. To achieve zero defect product selling is a main goal and every department of vender area he is take much care to sustain order and further improvement of their order approved vender list from the customer and procuring the raw materials from them his safe one where the defect can be reduced and in formed the customer recording the quality deviation and prevention. The project which we have taken from analyzation this is also one where the materiel of raw material and conclude with our analyses and data. ASIS 1010 carbon steel is primarily used for application such as cold headed fasteners and bolts As per now given material in vender ASIS 1008 Steels containing mostly carbon ass the allying element are called carbon steels. They contain about 1.2% manganese and 0.4% silicon , nickel,aluminium, chromium, copper and molybedenum are also present in small quantities in the carbon steels. ASIS 1008 carbon steel has excellent weldability, which includes projection, butt, spot and fusion ,and braze ability . the following data sheet will provide more details about ASIS 1008 carbon steel. Accompanied Drawing [FIG. 1] [FIG. 2]

No. of Pages : 20 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013724 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DESIGN AND FABRICATION OF PORTABLE HYDRO POWER GENERATOR

(51) International classification :F03B 130000, F03B 170600, G06F 302000, G06F 303920, G06Q 100600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Archimedes Screws Turbines(AST), are a novel type of small hydroelectric power plant that can be utilized even in low head areas. They offer a renewable and clean source of energy, and are considered a safer option for wildlife, particularly fish, than other hydro generation methods. While ASTs may not be a universal solution for all scenarios, they can provide numerous economic, social, and environmental benefits that make them a crucial option for sustainable hydropower development. Archimedes screws can function in low water heads of less than about 5 meters and various flow rates with practical efficiencies ranging from 60% to 80%. Compared to other hydropower systems, ASTs may be more cost-effective in many low head sites, with lower installation and operational costs. Additionally, ASTs could potentially minimize the disturbance of natural sedimentation and erosion processes and have a smaller impact on fish and other fauna. This project examines the characteristics of ASTs and evaluates how they could support the sustainability of hydropower development.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013730 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DESIGN AND FABRICATION OF VERTICAL AXIS WIND TURBINE

(51) International classification :F03D 030000, F03D 030600, F03D 092500, G06F 302000, G06Q 100600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a vertical axis wind turbine (VAWT) designed for small-scale and residential wind power generation. The VAWT comprises a vertical shaft and multiple helically arranged blades that optimize aerodynamic performance for efficient power generation in all wind speeds and directions. The turbine is designed to be cost-effective, easy to manufacture, and low maintenance, making it a practical solution for residential and small-scale applications. The present invention promotes environmental sustainability and reduces reliance on non-renewable energy sources. The invention also provides methods of manufacturing, installing, and operating the VAWT, as well as the use of the VAWT for small-scale and residential wind power generation.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013731 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DESIGN AND FABRICATION OF ROOT VEGETABLE WASHER

(51) International classification :A23L 191000, A23L 191200, G06F 302000, G06F 303920, G06Q 100600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention is a root vegetable washer comprising a rotating drum with brushes and water jets, designed for efficient and thorough cleaning of root vegetables. The machine is equipped with a water supply system that ensures a consistent flow of water during the washing process. It is designed to reduce labor costs and increase productivity for small-scale farmers and gardeners. The root vegetable washer is constructed of durable materials and designed to be environmentally friendly with recirculating water and low power requirements. It is equipped with safety features to prevent accidental contact with moving parts and over-pressurization. The root vegetable washer is designed to effectively remove dirt, debris, and other contaminants from root vegetables, improving the quality of produce. It is also designed to be compact and portable, making it easy to transport and store.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013732 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DESIGN AND FABRICATION OF MINI TILLER MACHINE

(51) International classification :B63H 201200, G05B 194099, G06F 302000, G06F 303920, G06Q 100600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The present invention relates to a mini tiller machine designed for small-scale agriculture. The machine features adjustable tines that can be set to different depths for varying types of soil and depth of tillage required. The machine is equipped with a four-stroke engine that is powerful and fuel-efficient, emits low emissions, and features a centrifugal clutch that reduces wear and tear on the machine. The machine is designed to be durable and ergonomic, with easily accessible components and a user manual that provides clear and concise instructions on how to operate and maintain the machine. The machine is a cost-effective option for small farmers, gardeners, and hobbyists, and represents an efficient and reliable option for soil preparation, a critical aspect of agriculture.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : Conformal Log Periodic Array Antenna with rectangular patch top loading for Multi Band Applications

(51) International classification :H01Q 013800, H01Q 111000, H01Q 150000, H01Q 210000, H01Q 210600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT Conformal Log Periodic Array Antenna with rectangular patch top loading for Multi Band Applications A planar and conformal log periodic dipole array antenna with rectangular patch top loading is proposed in this paper for multi band applications. The proposed antenna is conformal at 300, 450 and 600 angles. At 300 bending the proposed antenna produces more resonant frequencies, those are 1.8GHz, 3.5GHz, 5.8GHz, 7.5GHz and 9.3GHz with gain values of 11.8dBi, 2dBi, 9.26dBi, 8.99dBi and 9.6dBi respectively. The proposed antenna is compact in size with dimensions of 44mm x 40mm. The antenna is simulated using CST MW studio suit 2019 and is fabricated on polyimide material with a dielectric constant of $\epsilon_r = 3.3$ and thickness of $h = 0.1$ mm. The proposed antenna produces better radiation characteristics at 300 bending angle and its measured results are good agreement with the simulated results.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : A SYSTEM AND A METHOD FOR STEREO PIPE INSPECTION

(51) International classification :F16L 013000, G01N 279000, G01N 294400, G01V 032800, H01B 071800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT A SYSTEM AND A METHOD FOR STEREO PIPE INSPECTION The present disclosure discloses a system(100) and a method(200) for stereo pipe inspection. The system(100) comprises a capturing unit(104) that captures live streaming images from inside the pipe; a pre-processing unit(106) to receive the captured live streaming images and generates at-least-one stereo point cloud by means of a set of stereo vision rules and generate stereo features; a path estimator unit(108) to identify the path movement for pipe scanning device(104a) and determine a path estimation distance; a path corrector unit(110) implemented with a plurality of sensors(110a) and receive path estimation distance and scan and detect at-least-one defect location so as to determine and calculate the correct movement path; a model builder unit(112) to receive said stereo point cloud and stereo features and said correct movement path so as to build a three-dimensional model by means of said set of model builder rules and said set of feature matching rules.

No. of Pages : 27 No. of Claims : 9

(54) Title of the invention : NANOSUSPENSION OF MARIBAVIR AND PREPARATION METHOD THEREOF

<p>(51) International classification :A61K 090000, A61K 091000, A61K 317056, A61K 472400, A61P 312200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Martha Srinivas Address of Applicant :Associate Professor, Department of Pharmaceutics, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad-500075, India -----</p> <p>2)Mr. Ramreddy Godela 3)Dr. Vanga Mohan Goud 4)Dr. Nagaraju Potnuri 5)Ms. Shivani chandra jadav 6)Dr. Devilal Jarpula 7)Mr. Venkata Surya Satya Subrahmanya Gupta Atyam 8)Mrs. Ginjupalli Sudha Rani 9)Ms. Koppula Maheshwari 10)Dr. M Sri Ramachandra 11)Dr. Jandhyala Venkata Chalapathi Sharma</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Martha Srinivas Address of Applicant :Associate Professor, Department of Pharmaceutics, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad-500075, India -----</p> <p>2)Mr. Ramreddy Godela Address of Applicant :Assistant Professor, Department of Pharmaceutical Analysis and Quality assurance, GITAM School of Pharmacy, GITAM Deemed to be University, Rudraram, Sangareddy, Telangana- 502329, India -----</p> <p>3)Dr. Vanga Mohan Goud Address of Applicant :HOD & Associate Professor, Pharmaceutical Chemistry and Analysis, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad-500075, India -----</p> <p>4)Dr. Nagaraju Potnuri Address of Applicant :HOD & Associate Professor, Pharmaceutics, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, Hyderabad-500075, India -----</p> <p>5)Ms. Shivani chandra jadav Address of Applicant :Post Graduate Student, Pharmaceutics, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad-500075, India -----</p> <p>6)Dr. Devilal Jarpula Address of Applicant :Pharmaceutical Chemistry, Gokaraju Rangaraju College of Pharmacy, Nizampet, Bachupally Road, Kukatpally, Osmania University, Hyderabad- 500090, India -----</p> <p>7)Mr. Venkata Surya Satya Subrahmanya Gupta Atyam Address of Applicant :HOD & Associate Professor, Department of Pharmacology, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, Hyderabad- 500075, India -----</p> <p>8)Mrs. Ginjupalli Sudha Rani Address of Applicant :Assistant Professor, Department of Pharmacognosy, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad-500075, India -----</p> <p>9)Ms. Koppula Maheshwari Address of Applicant :Assistant Professor, Department of Pharmaceutics, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad-500075, India -----</p> <p>10)Dr. M Sri Ramachandra Address of Applicant :HOD & Associate Professor, Department of Pharmacology, Bhaskar Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad-500075, India -----</p> <p>11)Dr. Jandhyala Venkata Chalapathi Sharma Address of Applicant :Principal & Professor, Joginipally B.R Pharmacy College, Yenkapally (V), Moinabad (M), Telangana, JNTU, Hyderabad- 500075, India -----</p>
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(57) Abstract :

Abstract NANOSUSPENSION OF MARIBAVIR AND PREPARATION METHOD THEREOF The present invention provides a maribavir nanosuspension. The process for the preparation of maribavir nanosuspension, comprising of dissolving different concentrations of polymers in solvent; dissolving the required amount of drug completely in water miscible solvent; injecting the drug solution into the water containing the stabilizer under stirring at 1,000 rpm; precipitating solid drug particles occurring immediately upon mixing; sonicating the suspension for 15 min under cold condition to yield nanosuspension. The process for the preparation of maribavir nanosuspension, wherein the technique used is precipitation-ultrasonication technique. The process for the preparation of maribavir nanosuspension, wherein concentrations of polymers in solvent 100,150 and 200 mg/ml. The process for the preparation of maribavir nanosuspension, wherein nanosuspension entrapment efficiency 98.60%, drug content 97.82% and percentage yield 89.34%. The formulation of maribavir nanosuspension, comprising of maribavir 200mg; ethyl cellulose 200mg; polyvinylpyrrolidone k-30 25mg; tween-80 10 ml; methanol 50 mg; and water 100ml; and the particle size of nanosuspension is 4.5 nm and drug release of 97.73% in 60 minutes, viscosity 0.875 mPa-s. The maribavir nanosuspension of present invention are useful for enhancing solubility and bioavailability of poorly water-soluble maribavir.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013792 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DETERMINATION OF THE FLASH POINT AND FIRE POINT OF OIL'S THROUGH MODIFIED CLOSED CUP APPARATUS

(51) International classification :A23C 030500, A23C 091500, C10N 300800, G01N 255200, H01B 032000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

In the Pensky-Marten's closed cup flash point test, a brass test cup is filled with a test specimen and fitted with a cover. The sample is heated and stirred at specified rates depending on what it is that's being tested. An ignition source is directed into the cup at regular intervals with simultaneous interruption of stirring until a flash that spreads throughout the inside of the cup is seen. The corresponding temperature is its flash point. Pensky-Martens closed cup is sealed with a lid through which the ignition source can be introduced periodically. The vapour above the liquid is assumed to be in reasonable equilibrium with the liquid. Closed cup testers give lower values for the flash point (typically 5-10 K) and are a better approximation to the temperature at which the vapour pressure reaches the Lower Flammable Limit (LFL). Accompanied Drawing [FIG. 1][FIG. 2] [FIG. 3] [FIG. 4][FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8]

No. of Pages : 24 No. of Claims : 8

(54) Title of the invention : HYDROPONIC GROW BLOCK CULTIVATION PRODUCT

(51) International classification :A01G 310000, A01G 310200, A01G 310400, A01G 310600, H04N 014050

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

HYDROPONIC GROW BLOCK CULTIVATION PRODUCT A hydroponic cultivation product that is designed to be compatible with various grow systems in various shapes and form is disclosed. Said product comprises of a compacted grow media comprising of two layers, wherein materials of hygroscopic properties forms the bottom layer, and a thick layer of grow media forms the top layer. The compacted grow media block is encompassed in a casing made of fabric or plastic. A hole is drilled at the center of the compacted block, and a corresponding opening is provided at the top part of the casing to help align the irrigation system and watering equipment used in cultivation, when installed. FIG.3

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : Nanotechnology-based Coating for Improved Thermal Performance in Solar Water Heaters

(51) International classification :A61P 170200, F24S 206700, F24S 402000, G01J 014200, H02S 501000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to a nanotechnology-based coating for improved thermal performance in solar water heaters. The coating comprises a plurality of nanoparticles that enhance the absorption and retention of solar radiation. The nanoparticles can be carbon nanotubes, graphene, metal oxides, or quantum dots, and can be dispersed in a polymer matrix that provides adhesion and stability to the coating. The thickness of the coating can be between 50 and 500 nanometers. The coating can be applied to the absorber plate and/or the inner surface of the glass cover of a solar water heater to enhance the efficiency of heat transfer and reduce heat loss. The coating can be modified to resist corrosion, extreme temperatures, and water droplets, and can improve the durability and longevity of the solar water heater. The nanotechnology-based coating offers a promising solution to enhance the efficiency and effectiveness of solar water heaters, which can contribute to the promotion of renewable energy and the reduction of carbon emissions.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : A SYSTEM FOR HEALTH MONITORING OF A PATIENT

(51) International classification :A61B 050000, A61B 050205, A61B 051100, G06F 113400, G16H 406700

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A system 100 to monitor health of a patient 202 includes a plurality of sensors 104 configured to sense one or more health parameters of the patient 202, and a control unit 106 communicatively coupled with the plurality of sensors 104 in a network 114, configured to receive one or more signals sensed by the plurality of sensors 104, analyse one or more received signals by comparing previously obtained data and with predefined dataset, display analysed data on one or more display screen 112 for doctors and nursing staff to monitor, and transmit signal to one or more mobile devices held by one or more person in case of criticality of the patient 202. The plurality of sensors 104 includes a heartbeat rate sensor 104-1, a temperature sensor 104-2, and oxygen level sensor 104-3, and the patient 202 is under closed supervision in a hospital.

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : SMART GLASS FOR ASSISTING VISUALLY IMPAIRED USERS WITH VOICE ASSISTANCE AND METHOD THEREOF

<p>(51) International classification :A61H 030600, G02B 270100, G06F 031600, G07F 071000, G09B 210000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)VIT-AP University Address of Applicant :Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MANDAL, Santanu Address of Applicant :Associate Professor, School of Advanced Sciences, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>2)CHOWDHURI, Soumyadip Address of Applicant :Student, School of Electronics Engineering, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>3)V, Aravindan Address of Applicant :Student, School of Computer Science and Engineering, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>4)KARMAKAR, Sayak Address of Applicant :Student, School of Advanced Sciences, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>5)KASYAP, Varanasi L.V.S.K.B. Address of Applicant :Student, School of Computer Science and Engineering, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>6)MUNSHI, Abhasita Das Address of Applicant :Student, School of Advanced Sciences, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>7)VEERESWARAPU, Lalith Praneeth Raj Address of Applicant :Student, School of Electronics Engineering, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p>
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(57) Abstract :

The present invention relates to a smart glass for assisting visually impaired users with voice assistance and the method thereof. System (102) comprising an image capturing unit (202) configured to capture one or more images of one or more users (108). The system (102) comprising a geo position unit coupled to the coupled the image capturing unit (202), configured to detect at least one position of one or more user, and guide the user to a destination location and surroundings. Further, an audio unit (206) communicatively coupled to the geo position unit (204), configured to receive an audio guidance and provide to one or more users (108), wherein the audio guidance pertains to information of one or more events in the surroundings, and commands for reacting to one or more events.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013872 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SYSTEMATIC APPROACH FOR GUIDING HUMAN INTUITION WITH ARTIFICIAL INTELLIGENCE USING ADVANCED MATHEMATICS

<p>(51) International classification :G02B 213600, G06F 162800, G06Q 100800, G06Q 204000, H04L 450000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. C. Dhandapani Address of Applicant :Principal, Rajagopal Polytechnic College, Gudiyattam-632602, Vellore District, Tamil Nadu -----</p> <p>2)Rashmi Dharwadkar 3)Dr. Capt. K. Sujatha 4)Dr. Neetu Singh 5)D. R. Muthubhavani 6)Dr. Jyoti Gupta 7)Dr. Namrata Kaushal 8)Sivaprakash C 9)Upashana Rana 10)Neerav Nishant 11)Mohd Asif Shah 12)K. Renuga</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. C. Dhandapani Address of Applicant :Principal, Rajagopal Polytechnic College, Gudiyattam-632602, Vellore District, Tamil Nadu -----</p> <p>2)Rashmi Dharwadkar Address of Applicant :Assistant Professor/CSE-AI-Nutan College of Engineering and Research, Talegaon Dabade-410507, PUNE, MAHARASHTRA, India -----</p> <p>3)Dr. Capt. K. Sujatha Address of Applicant :Professor and Head, Department of Mathematics, St. Joseph's College for Women (A), Visakhapatnam, Andhra Pradesh -----</p> <p>4)Dr. Neetu Singh Address of Applicant :Assistant Professor/Department of Applied Science, G.L. Bajaj Institute of Technology and Management Greater Noida-201306, UTTAR PRADESH -----</p> <p>5)D. R. Muthubhavani Address of Applicant :Lecturer in Mathematics, Rajagopal Polytechnic College, Gudiyattam-632602, Vellore, Tamil nadu -----</p> <p>6)Dr. Jyoti Gupta Address of Applicant :Senior Mathematics Faculty/CSE/ITM Vocational University, Vadodara, Gujarat, 390019, India -----</p> <p>7)Dr. Namrata Kaushal Address of Applicant :Associate Professor/ESH, Indore Institute of Science and Technology, Indore, 453331, Madhya Pradesh, India -----</p> <p>8)Sivaprakash C Address of Applicant :Assistant Professor, Dept. of Artificial intelligence and Machine Learning, Sri Sairam College of Engineering, Anekal, Bengaluru, Karnataka, India -----</p> <p>9)Upashana Rana Address of Applicant :Research Scholar/ Department Of Mathematics, Srm Institute Of Science And Technology Delhi-Ncr Campus Modinagar , Ghaziabad 201204, Uttar Pradesh -----</p> <p>10)Neerav Nishant Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, School of Engineering, Babu Banarasi Das University, Lucknow, Pin Code - 226028, Uttar Pradesh -----</p> <p>11)Mohd Asif Shah Address of Applicant :Adjunct Faculty, School of Business, Woxsen University, Kamkole, Sadasivpet, Hyderabad, Telangana, 502345, India. -----</p> <p>12)K. Renuga Address of Applicant :Assistant Professor, Department of Mathematics, St. Joseph's Institute of Technology, Chennai, Chengalpattu, Tamil Nadu, India -----</p>
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(57) Abstract :
SYSTEMATIC APPROACH FOR GUIDING HUMAN INTUITION WITH ARTIFICIAL INTELLIGENCE USING ADVANCED MATHEMATICS The practice of mathematics involves discovering patterns and using these to formulate and prove conjectures. New fundamental results in pure mathematics have been discovered with the assistance of machine learning demonstrating a method by which machine learning can aid mathematicians. Outline this machine-learning-guided framework and demonstrate its successful application to current research questions in distinct areas of pure mathematics. Artificial intelligence researchers predict that thinking machines will take over our mental work. Developed through active participation in artificial intelligence research have now come to recognize a larger grain of truth in the criticisms than in the enthusiastic predictions. Artificial intelligence powered by deep neural networks has reached a level of complexity where it can be difficult or impossible to express how a model makes its decisions. A new connection between the algebraic and geometric structure of knots, and a candidate algorithm predicted by the combinatorial invariance conjecture for symmetric groups.

No. of Pages : 16 No. of Claims : 1

(51) International classification :A61P 110000, G06N 030800, G06T 070000, G16H 502000, G16H 507000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

A Contemporary Technique for Lung Disease Prediction using Deep Learning Abstract: Growing energy cost and demand has motivated many organizations to achieve smart ways to monitor, control, and save energy. Smart automation can reduce costs while still satisfying energy demand. The residential, commercial, and industrial sectors can utilize the technologies of the Internet of Things (IoT) to manage energy consumption better. This paper presents a low-cost, open-source, and reliable Supervisory Control and Data Acquisition (SCADA) system for home monitoring and control system. The presented SCADA system consists of analog sensors, ESP32, Node-RED, and Message Queuing Telemetry Transport (MQTT) through local Wi-Fi to remotely access and control appliances. This system helps the users to monitor various conditions in the home, such as temperature, humidity, pressure, and light intensity. Thus, users can remotely monitor various devices such as lights, fans, heating/cooling systems, make decisions based on the feedback of sensors. Machine learning is a subfield of computer science that examines how machines might learn new tasks by observing how humans perform them. Classification requires machine learning techniques that can categorise data from the issue domain with a class label. How emails are labelled as spam or not is one example. With binary classification, you can only make predictions about two classes, but with multi-class classification, you can make predictions about more than two classes. Almost every situation that falls into one of two categories has both a "normal" and a "abnormal" counterpart. X-rays are used to predict lung disease using a two-way classification method in this study. In addition to Tensor Flow, Keras, and NumPy, additional Python libraries are utilised in this project. The objective of this study is to predict lung diseases using x-rays. The results will be displayed alongside a complete example and the associated source code. When we dissect the implementation into its component parts, we may include screenshots.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013877 A

(19) INDIA

(22) Date of filing of Application :01/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PHARMACEUTICAL COMPOSITION OF PIRFENIDONE FOR THE MANAGEMENT OF RHEUMATOID ARTHRITIS

<p>(51) International classification :A61K 314418, A61P 110000, A61P 190200, A61P 290000, A61P 430000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)National Institute of Pharmaceutical Education and Research Hyderabad (NIPER-H) Address of Applicant :NH-9, Kukatpally Industrial Estate, Balanagar, Hyderabad-500037, Telangana, India ----- -- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Rimsha Nooreen Address of Applicant :2-6-1037, K.L.N Reddy Colony, Subedari, Hanamkonda, Warangal- 506001, Telangana, India Warangal ---- ----- 2)Shweta Nene Address of Applicant :15-21-150/29A, New Balaji Nagar, Hyderabad- 500072, Telangana, India Hyderabad ----- --- 3)Ganesh B. Vambhurkar Address of Applicant :15-21-150/29A, New Balaji Nagar, Hyderabad- 500072, Telangana, India Hyderabad ----- --- 4)Dr. Shashi Bala Singh Address of Applicant :49, Prestige Park, Komapally, Hyderabad-500100, Telangana, India Hyderabad ----- 5)Dr. Saurabh Srivastava Address of Applicant :103, Park Vista Apartment, Street No. 19, HMT Swarnapuri Colony, Miyapur-Hyderabad-500049, Telangana, India Hyderabad -----</p>
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(57) Abstract :

ABSTRACT PHARMACEUTICAL COMPOSITION OF PIRFENIDONE FOR THE MANAGEMENT OF RHEUMATOID ARTHRITIS The present invention relates to topical nano-emulsion composition comprising pirfenidone, triacetin, and along with pharmaceutically acceptable excipients. The invention also relates to transdermal delivery of nano-emulsion gel comprising of pirfenidone, triacetin and surfactants mixture. More particularly, the nanoemulsion gel loaded with nanoemulsion along with nano-sized droplets improves the permeation through skin epidermis for extended duration to exhibit enhanced therapeutic efficacy.

No. of Pages : 41 No. of Claims : 18

(54) Title of the invention : CURRENT COLLECTOR PLATES FOR BATTERIES

(51) International classification :B22D 270400, H01G 117000, H01M 046600, H01M 080210, H01M 080400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT CURRENT COLLECTOR PLATES FOR BATTERIES Example current collector plates (108, 200, 300) for a battery (100) are described herein. In an example, a current collector plate (108, 200, 300) includes a frame member (202, 302) having at least two arms (204, 304). The at least two arms are arranged radially on the frame member (202, 302) to define two or more slots (206, 306) in the frame member (202, 302). Further, the current collector plate includes two or more flap members (208, 308) coupled to the inner periphery (210, 310) of the frame member (202, 302) and positioned in the two or more slots (206, 306) without being in contact with the at least two arms (204, 304). Each flap member is in a plane different from the plane in which the frame member lies.

No. of Pages : 16 No. of Claims : 14

(54) Title of the invention : DESIGN & FABRICATION OF PNEUMATIC VICE FOR CYLINDER HEAD

(51) International classification :B25B 011000, F02M 611400, G06F 302000, G06F 303920, G06Q 100600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The main aim for us to select this project work is to acquire practical knowledge in the field of automation using PNEUMATICS. The goal of this project is to create a model of bench vice which is pneumatically operated. Using air pressure to create mechanical motion in the spindle of the vice provides a safe & efficient way to reduce human effort. The mechanical motion in the vice is created with the help of a double actuating cylinder which is operated by a 5/2 way lever operated directional control valve with the help of the air hoses. In our project, "PNEUMATIC VICE" the load is clamped automatically with the pneumatic cylinder. Here the pneumatic cylinder is screwed to the fabricated m .s .platform. The piston rods of the cylinder are screwed to the movable clamping plate. When the valve is turned ON, the 5/2 way DC valve directs the air to the air cylinder and hence the piston rod pushes clamping plate to clamp the workpiece. The piston rod is return to original position, when the valve is turned OFF. Accompanied Drawing [FIG. 1]

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013957 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Deep Learning and Artificial Intelligence based system for Future Cybercrime Rate Prediction

(51) International classification :G06N 030400, G06N 030800, G06N 050400, G06N 070000, G06N 200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to Advanced Cyber Crime Rate Prediction Using Deep Learning & AI Based system is a wrongdoing, which is an intentional act that can cause harm to people as well as property damage or bad luck. Depending on how serious the wrongdoing is, it may also result in punishment from the state or another authority. The number and variety of crimes are increasing at a concerning rate, forcing offices to develop effective strategies to take all reasonable precautions. Due to their slow pace and low productivity, traditional wrongdoer confronting techniques are ineffective in the current environment of rapidly expanding wrongdoing. So, it would lighten the burden on police and aid in preventing infractions and devise techniques to accurately predict wrongdoing before it occurs or create a "machine" that can assist officers and suggest incorporating AI (ML) and PC vision computations and techniques. This invention relates to determine how law enforcement agencies or experts may use a combination of ML and PC vision to identify, prevent and address wrongdoings at a significantly more accurate and rapid pace.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013959 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : INDUCTION MOTOR BASED SPEED AND DIRECTION CONTROLLER

(51) International classification :B23K 090950, B23K 091330, C23C 145600, G11B 271000, H02K 171600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Induction motors have been used widely in different fields ranging from domestic appliances to industrial machinery. Induction motor runs through direct AC line the amount of power given to it decides to what RPM it does rotates. We can modulate the power of the AC line to vary the speed of the induction motor through AC driver circuitry. An Atmega family microcontroller is used to give PWM power to an opto-coupler which drives the TRIAC giving supply to the induction motor. Instructions to the microcontroller are fed through cell phone connection to the system. The cell phone provides DTMF signals to the system which the system understands and takes actions accordingly. As per the video, a button is used to increase the speed of the motor, a button to change direction and a button to decrease speed of the induction motor. One can observe the whole process as it happens on the LCD. In this way this project proves to be quite useful in handling an Induction Motor for its speed and direction.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013960 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SMART WATER MANAGEMENT SYSTEM

(51) International classification :E03C 010500, G01F 150200, G05D 070600, G06Q 500600, H01M 080411
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

A smart water management system fixture device is positioned on a water line. The device includes a measuring unit, an electronics unit, and an energy unit associated with a housing. The measurement unit includes an impeller of a turbine disposed in a water chamber and rotatable therein. The water chamber is positioned between an inlet and an outlet to define a fluid flow path. The measurement unit is in communication with the electronics unit. The electronics unit receives information from one or more sensors and harvests electricity using the motion of the turbine and is in communication with an energy unit for store electricity.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013961 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATIC LIGHT INTENSITY CONTROLLER BY EXTERNAL LIGHT SENSING

(51) International classification :A01G 090200, B60Q 011400, G03G 211800, G11B 070000, H05B 471100
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Nowadays highways are lightened by using High Intensity Lamps. The disadvantage of this High Intensity Lamps is that it consumes a lot of energy and another disadvantage of this is that the intensity cannot be varied according to the requirement. To overcome this limitation, this system "Automatic Light Intensity Controller by External Light Sensing Project" is developed. To overcome the limitations specified above, it makes use of LED's (Light Emitting Diodes) as light source and simultaneously its intensity can be varied and controlled as per the need. The programmable instructions to control the intensity by producing pulse width modulated signals which drives a MOSFET (108) to switch LEDs (110) to achieve required results are fed into the 8051 family microcontroller (112). Due to this the intensity increases during the peak hours and slowly starts to diminish after midnight. At 6 a.m. the intensity completely goes off and resumes again at 6 p.m.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013968 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : FINITE IMPULSE RESPONSE FILTER AND IMPROVEMENT THEREOF

(51) International classification :H01Q 033000, H03H 170200, H03H 170600, H04B 102513, H04R 290000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 FINITE IMPULSE RESPONSE FILTER AND IMPROVEMENT THEREOF ABSTRACT A Finite Impulse Response (FIR) Filter (100) is disclosed. The Finite Impulse Response (FIR) Filter (100) comprises a set of registers such as a first register (104), a second register (106), a third register (108) that are arranged sequentially. The Finite Impulse Response (FIR) Filter (100) further comprises multipliers such as a first multiplier (110), a second multiplier (112), a third multiplier (114), and adders such as a first adder (116) and a second adder (118). The Finite Impulse Response (FIR) Filter (100) is further applied with filter coefficients for meeting timing requirements of a Field Programmable Gate Array (FPGA). Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013969 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : MANUAL DISINFECTION WATER BOTTLE

(51) International classification :A45F 031600, A61B 011200, B67D 030000, C02F 013200, C02F 015000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

MANUAL DISINFECTION WATER BOTTLE ABSTRACT A manual disinfection water bottle (100) is disclosed. The water bottle (100) comprises a container (102) to store water to be disinfected in the water bottle (100). The water bottle (100) further comprises an orifice plate (110) arranged inside the container (102). The orifice plate (110) creates a narrow channel (112) that accelerates a generation of microbubbles and hydroxyl (OH) radicals upon shaking the water bottle (100). The generated microbubbles and hydroxyl (OH) radicals disinfect the water stored in the container (102) by eliminating microorganisms in the water. Claims: 10, Figures: 2 Figure 1 is selected.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : BALANITES AEGYPTIACA EXTRACTS FOR PREPARING A COMPOSITION FOR CONTROLLING MELANOGENESIS

(51) International classification :A61K 086400, A61K 089200, A61K 361850, A61Q 170000, A61Q 190200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

BALANITES AEGYPTIACA EXTRACTS FOR PREPARING A COMPOSITION FOR CONTROLLING MELANOGENESIS A stable preparation of Balanites aegyptiaca or Balanites roxburghii saponin nanovesicles encapsulating an active material. Wherein said Balanites aegyptiaca saponin is a saponin of the general formula I or a mixture of at least two different saponins of the general formula. A pesticidal composition comprising a preparation of Balanites aegyptiaca saponin nanovesicles encapsulating Bti toxin. Our legitimate right for any future utilization, manufacturing, or distribution of the aqueous of the stem bark of B. Aegyptiaca or its freeze-dried form in the treatment of HIV/ AIDS and Leukemia cases. The family Annonaceae genus Monodora and the family Clusiaceae genus Calophyllum for their use as active control agents on the melanogenesis for the manufacture of melanogenesis control composition. Controlling melanogenesis is characterized in that it contains at least one melanogenesis-active control agent and at least one plant extract selected from the group formed by the family Bignoniaceae genus Arrabidaea, the family Balanitaceae.

No. of Pages : 16 No. of Claims : 1

(54) Title of the invention : RECYCLING OF PLASTIC WASTES INTO NEW PRODUCTS

(51) International classification :B29B 170000, B29B 170200, B29B 170400, C08J 110600, C10G 011000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Due to the large amounts of plastic trash being produced, which seriously impact the ecosystem and its inhabitants, this threat to the environment is growing. The maritime environment is one of the main victims of this threat. Plastic garbage from the land finds its way into bodies of water, where it causes flooding and poisoning of marine ecosystem creatures. It has been discovered that using recycled plastic waste as a component in cementitious composites is the most advantageous because it can be used to replace all of the composite's solid components.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : BORE WELL CHILD RESCUE ROBOT

<p>(51) International classification :B25J 050000, B25J 110000, C09K 086000, C09K 086800, C09K 088000</p> <p>(86) International Application No:PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE Address of Applicant :MEDAVAKKAM-MAMBAKKAM ROAD PONMAR Chennai Chennai ----- 2)PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECHNOLOGY 3)PRINCE SHRI BALAJI ARTS AND SCIENCE COLLEGE 4)PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. T. Surulivelrajan Address of Applicant :Associate Professor, Department of Mechanical Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 2)Mr. Lakshmi Nivasan. B Address of Applicant :Department of Computer Science Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 3)Ms. Pavithra. G Address of Applicant :Department of Computer Science Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 4)Ms. Thennarasi. C Address of Applicant :Department of Computer Science Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 5)Mr. Sivaraman. M Address of Applicant :Department of Computer Science Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 6)Mr. Raghul. K. V Address of Applicant :Department of Computer Science Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai -----</p>
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(57) Abstract :
As per the Indian government report, Newspaper articles and Google search of the bore well accidents in the last 10 years resulted in a total of 39 bore well accidents since 2006. These deaths are happening not only in India but in neighbouring countries like China; Bangladesh etc. investigating into reason behind these deaths, while rigging bore or after the exhaust of source people leave these holes not by covering or closing. The normal general rescue system consist of rigging a parallel tunnel at some distance from the bore well hole and going into that and rescue him but the method has many drawbacks such as long time taking,no visualization, no O2 supply no food and water supply, requirement of JCB,cranes, army person and need of big space around hole in split of their determination child may not survived in many cases. Therefore the main aim of the paper is to provide innovative design and working of new rescue system named prosthetic bore well rescue system for the innocent children bore well deaths.We aid the child by continuous monitoring using camera and supply of necessary items mainly, air filler which supplies oxygen for the survival. Robot for bore well rescue offers solution to this situation. This system will attach a harness to child using robotic arms for picking up. It includes an infrared transmitter and receiver to calculate the distance to the child. A temperature sensor is used to measure temperature and gas sensor is used to detect the presence of any toxic gas. The proposed system will easily rescue the child without major injury.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013988 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A wearable safety Device for females using Nano technology to safeguard from potential attackers

(51) International classification :A61K 091270, A61M 053200, F16P 031400, G08B 250100, H05B 010200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A wearable device for a woman to protect from potential threat of attack from a miscreant or group of miscreants / stalkers is provided. Accordingly, the device is provided with an arrangement to provide alarm to nearby people in the event of a potential attack by a miscreant / stalker and so that she can be rescued. Also, there are provisions to alert the nearby law enforcing authorities and police etc and provide the possible occurrence of an event of crime against woman and thus, they can rush to the place where the woman is present and ensure her safety and security and safeguard her. Also the device is provided with a trigger that can spray pepper powder on potential miscreant and thus prevent him from making advances and act as self defence for the woman. The apparatus can work without GPRS etc and can safeguard woman at all places

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : MILK STANDARD EXAMINER

(51) International classification :A61K 089800, A61K 352000, G01N 330400, G06F 215500, G06Q 101000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In order to boost yield and maintain milk revenue, adulterants are introduced to milk. Adulteration refers to the addition of other substances in milk to increase the amount of raw milk available. The consistency of milk must be detected and ensured. The Internet of Things (IOT) is revolutionizing our daily lives. The measurement of density of milk can be done using lactometer attached with sensor. Additionally, the milk sector should be able to submit real-time readings of milk quality to the government via IOT processes, since this would help to combat unlawful activities like milk quality during milk package production. All the efforts made to milk hygiene and quality production destination is to get wholesome milk and milk products which can satisfy all the needs of the consumer. The price of the milk that a farmer gets is determined by its quality. Thus the quality of milk is more important than the quantity of milk. By using this technique, we can trace the milk such as where it is coming from and what is the quality of the milk.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013994 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IMAGE WATERMARKING USING REVERSIBLE TEXTURE SYNTHESIS

(51) International classification :G06T 010000, G06T 110000, H04N 191860, H04N 192700, H04N 196100

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 Steganography is a process of information hiding technique in a host medium. The host medium can be of any host digital media such as an image, audio, video or text. Thus, steganography provides communication between two parties whose existence is unknown to an attacker. Most image steganographic algorithms adopt an existing image as a cover medium to hide the message and the size of the cover image is fixed, so the more secret messages allow for more image distortion. In this paper, we propose a novel approach for steganography using a reversible texture synthesis. Texture synthesis is the process of sampling the original texture image. A patch represents a piece of source texture in which the secret message can be embedded. Then, the patches along with the message are reformed into a single image. Here the embedding capacity of message is based on the size of the image and also the image distortion is reduced. This project is implement using java in the front end and my sql in the back end with eclipse IDE. Thus, here the message is passed in a more secure way and also this process is highly efficient and robust against steganalytical attacks

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341013999 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Automatic Wheel Alignment Detector and Puncture Detection

(51) International classification :B62D 150200, B62D 170000, G01B 052550,
G01B 112750, G01B 212600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An electronic system called a tyre pressure monitoring system (TPMS) is typically used to keep track of the air pressure in all pneumatic tyres on cars, aeroplane undercarriages, straddle-lift carriers, forklifts, and other types of vehicles. Other names for the device are Tyre Pressure Indication System (TPIS). These systems provide the driver of the vehicle with real-time tyre pressure information either through a gauge, a display, or a simple low pressure warning light. The strategy would also encourage the use of safety.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014008 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An Apparatus and Method for Digitizing an Organism for Obtaining Morphological Measurements

(51) International classification :A61B 050000, A61B 051070, C12Q 016888, G06F 402680, G06T 053000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: An Apparatus and Method for Digitizing an Organism for Obtaining Morphological Measurements The present disclosure proposes a portable apparatus (100) and a method for digitizing an organism to obtain accurate morphometric measurements. The portable apparatus (100) comprises a foldable base (102), an adjustable holder (104), a rotating ball (106), and a clip (108) with a flexible arm (110). The portable digitizing apparatus (100) can collect morphometric data from fresh samples in the field, which is reflected in the results. The proposed apparatus (100) can preserve captured images of the organism for a longer period of time than the samples. The method for digitizing the organism can be repeated to take new measurements at any time by analysing the captured images without requiring the sample itself.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : SMART ONLINE LIBRARY MANAGEMENT SYSTEM USING AI AND IOT TECHNIQUES

(51) International classification :G06Q 500200, G06Q 502200, G06Q 502600, G16H 402000, G16Y 401000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The Smart Online Library Management System is an innovative application that combines the power of Artificial Intelligence and Internet of Things (IoT) to revolutionize the traditional library management system. The system aims to automate the tedious tasks involved in managing a library and make it more efficient, cost-effective, and user-friendly. The system includes features such as real-time book inventory management, self-check-in and check-out, book recommendation, and personalized reading lists based on the user's interests and preferences. The system utilizes AI algorithms to provide intelligent book search and real-time user tracking to suggest relevant books to users browsing the library. The system automates the fine management process and provides automatic reminders to users who have overdue books, reducing the workload of librarians. The system allows users to reserve books online and receive notifications when the book is available, reducing the wait time for popular books. The system provides data analytics tools that allow librarians to analyze the library's performance and make data-driven decisions. The system allows users to provide feedback on the books they have read, and the AI algorithms analyze the feedback to suggest improvements to the library's collection. The Smart Online Library Management System improves the user's experience and encourages them to explore more books, leading to a more engaged and satisfied library community.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : AGRICULTURAL FIELD IRRIGATION INFRASTRUCTURE MONITORING: A COMPREHENSIVE METHODOLOGY THERE OFF

<p>(51) International classification :A01G 250200, A01G 251600, A01M 070000, E03B 090600, G06F 113000</p> <p>(86) International Application No :PCT/ Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Panyam Vuppu Gopi Krishna Rao Address of Applicant :Dr. P. V. Gopi Krishna Rao Professor Dept of ECE Rajeev Gandhi Memorial College of Engineering and Technology NH-40, Nerawada Cross Roads Nandyal - 518501 -----</p> <p>2)Rajeev Gandhi Memorial College of Engineering and Technology</p> <p>3)R. Hanuma Naik</p> <p>4)K. Muralidhra Reddy</p> <p>5)T. Jayachandra Prasad</p> <p>6)V. Nagabhaskar Reddy</p> <p>7)D. V. Ashok Kumar</p> <p>8)Y. Madhusudhana Reddy</p> <p>9)J. Leela Mahendra Kumar</p> <p>10)Manjunatha Budagavi Matam</p> <p>11)M. V. Rajasekhar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Panyam Vuppu Gopi Krishna Rao Address of Applicant :Dr. P. V. Gopi Krishna Rao Professor Dept of ECE Rajeev Gandhi Memorial College of Engineering and Technology NH-40, Nerawada Cross Roads Nandyal - 518501 -----</p> <p>2)Rajeev Gandhi Memorial College of Engineering and Technology Address of Applicant :NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>3)R. Hanuma Naik Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>4)K. Muralidhra Reddy Address of Applicant :Professor, Department of Physics, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>5)T. Jayachandra Prasad Address of Applicant :Principal & Professor, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>6)V. Nagabhaskar Reddy Address of Applicant :Professor, Department of Electrical & Electronics Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>7)D. V. Ashok Kumar Address of Applicant :Professor, Department of Electrical & Electronics Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>8)Y. Madhusudhana Reddy Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering,, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>9)J. Leela Mahendra Kumar Address of Applicant :Assistant Professor, Department of Electronics & Communication Engineering,, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p> <p>10)Manjunatha Budagavi Matam Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 518501 -----</p> <p>11)M. V. Rajasekhar Address of Applicant :Assistant Professor, Department of Electronics & Communication Engineering,, Rajeev Gandhi Memorial College of Engineering and Technology, NH-40, Nerawada 'X' Roads, Nandyal, Andhra Pradesh - 518501 Nandyal -----</p>
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(57) Abstract :
This Agricultural Field Infrastructure Monitoring system consists of a flow meter, temperature sensor, vibration sensor, attached to the motor, and the discharge pipe assembly, which consists of an 8 bit RISC based microcontroller to monitor the pressure, temperature, and vibration indicating through message, onboard display, and controlling the motor ON/OFF from damage to the agriculture irrigation infrastructure. A flow metre known as a pressure monitor is installed in line with the discharge (outlet) of the agricultural water pump (motor). A contact type temperature and vibration measurement equipment is fitted to the surface of the agricultural water pump (motor). The signals from the measuring devices are connected to the microcontroller for analysis based on specified safety parameters. The microcontroller generates the appropriate control actions, such as turning off the motor under harmful situations and informing the user of the status through messaging and on-board display. The microcontroller can also provide information on the quality of electricity.

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : A SYSTEM AND A METHOD FOR ACTIVATING INDICATORS OF A VEHICLE

(51) International classification :A61P 030000, A61P 170400, A61P 250200, A61P 370000, H04L 671400

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT A SYSTEM AND A METHOD FOR ACTIVATING INDICATORS OF A VEHICLE The present disclosure discloses a system (100) and a method (200) for activating indicators of a vehicle. The system (100) comprises a system on module (SOM) (104) configured to communicatively couple to a mobile device of a driver and further configured to detect a mobile operating state when the driver of the vehicle attends an incoming call on the mobile device; a sensing module (106) configured to sense the vehicle speed in response to the mobile operating state detected by said SOM (104), for detecting a vehicle operating state when the vehicle speed is more than zero; a controlling module (108) configured to generate a control command signal based on the detected mobile operating state and the detected vehicle operating state, and further configured to transmit said control command signal to turn ON all the indicators of the vehicle.

No. of Pages : 24 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014134 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SYSTEM FOR CONVERSION OF DRAWINGS INTO NON-FUNGIBLE TOKEN AND A METHOD THEREOF

(51) International classification :E01D 210000, G06Q 203200, G06Q 203800, H04L 093200, H04N 212360
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A SYSTEM FOR CONVERSION OF DRAWINGS INTO NON-FUNGIBLE TOKEN AND A METHOD THEREOF

The present disclosure relates to the field of conversion systems and discloses a system for the conversion of drawings into non-fungible tokens(NFT). The system(100) includes an input unit(106) to receive a digital copy of the architectural drawing and ownership data from an input device; a tokenizing unit(108) to encode the digital copy of the architectural drawing to obtain NFT complaint image content and encode the ownership data received from the input unit(106) to obtain an NFT owner content; an embedding unit (110) to embed the NFT complaint image content and the NFT owner content to obtain an NFT digital content; a token creation unit(112) to process the NFT digital content to create an NFT using a non-fungible token process and store the created NFT in a blockchain ledger; and a blockchain unit(114) having a public blockchain ledger configured to access the created NFT, for displaying and commercialization.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014141 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ANALOG TO DIGITAL FUEL INDICATOR

(51) International classification :A61N 050600, G01D 112800, H03M 010600, H03M 011200, H03M 030000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The existing fuel indications installed in vehicles like Honda, Hero, TVS, and Yamaha make use of analogue meter which causes errors in estimating how far a vehicle can travel with the fuel it currently has in its tank. Among the Major issues with kick-less motor cars include the self-start motor's failure to respond once the battery is drained, which is terrible for the user. In this digitized world, making the fuel gauge in a car digital will enable us to determine the precise amount of fuel in the tank. As part of our project, we made electronic fuel gauge. This project includes a suggestion for a digital measurement system that shows various factors including fuel level and battery health. The fuel indicator we use displays the amount of gasoline in a numerical manner, or in milliliters and provides us with a result that is 100% accurate. The microcontroller, which relies on sensor feeds and displays to make decisions, is the project's brain digital versions of the outcomes. An ultrasonic sensor is connected to an analogue to digital controller (ADC), which transforms the sensor's output voltage from analogue to digital and feeds it to the microcontroller. The microcontroller then determines the level, shows the digital numeric value on the screen based on the digital value multiplied by the volume of the tank at that level.

No. of Pages : 6 No. of Claims : 7

(54) Title of the invention : IMPLEMENTATION OF ARTIFICIAL NEURAL NETWORK TECHNIQUES FOR DETECTION AND CLASSIFICATION OF MELANOMA SKIN CANCER USING HYBRID TEXTURE FEATURES

(51) International classification :A61B 050000, A61P 350000, G01N 335800, G06N 030400, G06N 030800

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 IMPLEMENTATION OF ARTIFICIAL NEURAL NETWORK TECHNIQUES FOR DETECTION AND CLASSIFICATION OF MELANOMA SKIN CANCER USING HYBRID TEXTURE FEATURES Implementation of artificial neural network techniques for detection and classification of melanoma skin cancer using hybrid texture features. The method comprises a signal separator adapted for separating an input image signal into a first image signal and a second image signal, detecting an expression level of one or more genes that are differentially expressed in melanoma relative to typical nevi or normally pigmented skin. The obtaining multiple texture maps of multiple areas of at least a portion of a three-dimensional object, wherein the multiple texture maps comprise a first texture map of a first area and of a first resolution and a second texture map of a second area and of a second resolution, wherein the first area differs from the second area and the first resolution differs from the second resolution, wherein the first area and the second area belong to a face of an avatar, pre-processing the digital image data set to extract features from the image and separating an input image signal into a first image signal and a second image signal.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014176 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : EARLY DETECTION OF KNEE OSTEOARTHRITIS USING META-HEURISTIC APPROACH

(51) International classification :A61B 050000, A61P 190200, A61P 290000, G06N 031200, H04L 473200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system 100 and method 300 to build a classification model for knee osteoarthritis include a server 108 accessed by one or more specialists 104 each with a computing device 106 in a network 120. The server 108 includes at least one database 110 with osteoarthritis initiative data, and at least one processor 112 to perform operations including to receive an image 114 of knee of a subject 102, analyse image 114 to find regions of interest using one or more algorithms, extract the most important features using a hybrid model-based feature map generator 212, perform correlation analysis to predict classification output 222 with the use of deep convolutional neural network model 214 using grey wolf optimization 216 and particle swarm optimization 218. The classification is performed on Metrological Calibration Laboratory (MATLAB).

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : Improvements in storage structures and Incorporation of Sorting and Grading Systems

(51) International classification :B07C 053600, H01L 212650, H01L 296600, H01L 297880, H01L 297920

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention proposes improvements in onion storage structures by incorporating sorting and grading systems with deep learning and image processing. The goal is to reduce post-harvest losses of onions and increase profitability for farmers. The system uses a closed, controlled cold storage design with optimal temperature, humidity, and ventilation control via PLC, cloud computing, and machine learning. Ethylene is used as the sprout inhibitor instead of maleic hydrazide, which is safer and more cost-effective. The sorting and grading machine, integrated with deep learning and image processing technology, separates molded and rotten onions before entering storage, reducing the spread of infections and other variables. This proposed system offers numerous benefits, such as reducing labor costs, improving product quality, and increasing revenue from valorizing separated damaged onions into onion-based products.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014204 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SMART REFRIGERATOR WITH DUAL COMPRESSOR AND AUTOMATIC TEMPERATURE REGULATORS

(51) International classification :B60H 010000, F25D 230200, F25D 230600, F25D 250200, F25D 290000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The present invention discloses a smart refrigerator with Dual Compressors. The system includes, but not limited to Machine Learning algorithm and an IoT based interface that comprises of a microcontroller. To the microcontroller, dual compressors, Wi-Fi Module, sensors, camera and Power measuring Modules are interfaced. The image of a braille script is captured by means of the camera module and is processed to obtain the English text corresponding to the Braille Script. The Machine Learning algorithms are implemented to analyze, interpret and respond to different scenarios but not limited to image processing among the racks and regulate the temperature accordingly for different categories of food products. Another parallel track of this invention uses a Wi-Fi Module to store the data in cloud which are extracted using different sensors, cameras and to operate and regulate via any device. The ultimate goal of the smart refrigerator is to save electricity and increase the durability of the compressor for both domestic and commercial use.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014206 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SYSTEM FOR AUTHENTICATING DECENTRALIZED DOCUMENT VERIFICATION

(51) International classification :G07F 071200, H04L 090600, H04L 090800, H04L 093200, H04L 670200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT SYSTEM FOR AUTHENTICATING DECENTRALIZED DOCUMENT VERIFICATION The present disclosure relates to a system for authenticating decentralized document verification, comprising of, at least one deep-learning module, one interplanetary file system module, at least one content identifier module, a decentralized identifier (DID) module, and a control unit. The deep-learning module verifies the possibility of anomaly detection and all the records converted into a cryptographic value to facilitate the authentication for the user by the interplanetary file system module. The content identifier module reconstruct a file wherein the decentralized identifier (DID) module helps to rectify identity issues, verifying the possibility of anomaly detection, wherein the invalid documents can lead to rejection and the valid documents can be filtered for research, and verify identity authentication and validation, and identity can be verified and documents validated and issued to the user. Figure 1 shall be reference figure.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : AI AND MACHINE LEARNING TECHNIQUES BASED ON THE ROLE OF LINEAR ALGEBRA AND ITS APPLICATIONS IN MONITORING OF HEALTH CARE

<p>(51) International classification :A61B 050000, G06F 171600, G06N 050200, G06N 200000, G16H 502000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)HEMASWATHI S. Address of Applicant :Assistant Professor Computer Science & Engineering Kamaraj College of Engg. & Tech S.P.G.Chidambara Nadar, C.Nagammal Campus, S.P.G.C.Nagar,K.Vellakulam (Near Virudhunagar) Tirumangalam Madurai Pin:625701 Tamilnadu India -----</p> <p>2)Dr. P. Shalini</p> <p>3)Dr. H. Ebenezer</p> <p>4)Dr. S. Mekala</p> <p>5)Dr. P. Aparna</p> <p>6)Dr. N. POTHANNA</p> <p>7)Dr.P.Padmaja</p> <p>8)S. ATHILAKSHMI</p> <p>9)Dr. Varun Mohan</p> <p>10)Dr. R. Srilatha</p> <p>11)Mr. P Raja Shekhar</p> <p>12)Dr. M. Pavan Kumar Reddy</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)HEMASWATHI S. Address of Applicant :Assistant Professor Computer Science & Engineering Kamaraj College of Engg. & Tech S.P.G.Chidambara Nadar, C.Nagammal Campus, S.P.G.C.Nagar,K.Vellakulam (Near Virudhunagar) Tirumangalam Madurai Pin:625701 Tamilnadu India -----</p> <p>2)Dr. P. Shalini Address of Applicant :Assistant Professor PG & Research Department of Mathematics, Cauvery College for Women (Autonomous), Trichy Pin : 620 018 Tamilnadu India -----</p> <p>3)Dr. H. Ebenezer Address of Applicant :Asst Prof (SG) & ACOE Department of Mathematics Hindustan Institute of Technology and Science #1, Rajiv Gandhi Salai(OMR), Padur Kelambakkam Chengelpet, Pin :603103 Tamilnadu India ---</p> <p>4)Dr. S. Mekala Address of Applicant :Former Assistant Professor MVJ College of Engineering Near ITBP, Channasandra, Bangalore Pin: 560 067 Karnataka India -----</p> <p>5)Dr. P. Aparna Address of Applicant :Associate Professor Vallurupalli Nageswara rao Vignana Jyothi Institute of Engineering and Technology, Bachupally, Medchal Hyderabad Pin: 500090 Telangana India -----</p> <p>6)Dr. N. POTHANNA Address of Applicant :Associate Professor Valluripalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology. Bachupally, Hyderabad, Medchal-Malkajgiri Pin: 500090 Telangana India -----</p> <p>7)Dr.P.Padmaja Address of Applicant :Assistant Professor P.V.P. Siddhartha Institute of Technology, Vijayawada Krishna Pin: 520001 Andhra Pradesh India -----</p> <p>8)S. ATHILAKSHMI Address of Applicant :Assistant Professor Department of Computer Science and Engineering Kamaraj College of Engineering and Technology S.P.G.Chidambara Nadar, C.Nagammal Campus, S.P.G.C.Nagar,K.Vellakulam (Near Virudhunagar) Tirumangalam Madurai Pin:625701 Tamilnadu India -----</p> <p>9)Dr. Varun Mohan Address of Applicant :Associate Professor, Department of Mathematics University Sharda University, Plot No. 32-34, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Pin: 201310 Uttar Pradesh India -----</p> <p>10)Dr. R. Srilatha Address of Applicant :Assistant Professor Vallurupalli Nageswara rao Vignana Jyothi Institute of Engineering and Technology , Bachupally, Nizampet Medchal Hyderabad Pin: 500090 Telangana India -----</p> <p>11)Mr. P Raja Shekhar Address of Applicant :Assistant Professor Vallurupalli Nageswara rao Vignana Jyothi Institute of Engineering and Technology, Bachupally, Nizampet Medchal Hyderabad Pin: 500090 Telangana India -----</p> <p>12)Dr. M. Pavan Kumar Reddy Address of Applicant :Assistant Professor Vallurupalli Nageswara rao Vignana Jyothi Institute of Engineering and Technology, Bachupally, Nizampet Medchal Pin: 500090 Hyderabad India -----</p>
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(57) Abstract :
AI AND MACHINE LEARNING TECHNIQUES BASED ON THE ROLE OF LINEAR ALGEBRA AND ITS APPLICATIONS IN MONITORING OF HEALTH CARE Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society The bulk of practical problems require the solution of a large number of underdetermined, determined, or overdetermined equation systems. It is possible to place a restriction on the equations. Due of their size and rarity, the majority of matrix elements in these systems have a value of zero. In our review, we examine what it means for transmission and emission tomography to be able to resolve large systems. When acquired data are insufficient to produce a unique solution, optimization techniques such as the least-squares method may be employed. Using the Gauss elimination method, a system with few equations and variables can be solved. When dealing with real-world problems, such as those requiring medical imaging, it is not typical to face a complex system of linear equations. Thus, it is not uncommon for individuals to opt for less precise responses over more accurate ones. If there are multiple equations and unanswered issues, there may not be sufficient data to choose a single solution. An overdetermined system of equations is particularly prominent in medical tomographic imaging, because the images represent approximations of artificially fragmented portions of the inside of the body. Tomographic images are used in medical imaging to obtain a detailed view of what is occurring inside the body.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : SMART FARMING SYSTEM TO ENHANCE THE SMART IRRIGATION TO HELP FARMERS FOR EFFICIENT IRRIGATION, SOIL EROSION AND CROP-SPECIFIC IRRIGATION USING IOT AND MACHINE LEARNING APPROACHES

<p>(51) International classification :A01G 090200, A01G 092400, A01G 250900, A01G 251600, G06N 200000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)M. Gokilavani Address of Applicant :Assistant Professor, Department of CSE (AIML), Vignan Institute of Technology and Science, Near Ramoji Flim City, Deshmuki village, Yadadri, Bhuvanagiri, Telangana- 508284. -----</p> <p>2)Jadhav Rohini Suryabhan 3)Avdesh Kumar Sharma 4)Dr. Deepak A. Vidhate 5)Dr. Arun Kumar Gupta 6)Ms Soniya Sunil Paimode 7)Abhinav Vidwans 8)Dr. Sharad Timaji Tajane 9)Sasthi Kumar C 10)Soumya Bajpai 11)M. Sugadeva Boopathi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M. Gokilavani Address of Applicant :Assistant Professor, Department of CSE (AIML), Vignan Institute of Technology and Science, Near Ramoji Flim City, Deshmuki village, Yadadri, Bhuvanagiri, Telangana- 508284. -----</p> <p>2)Jadhav Rohini Suryabhan Address of Applicant :Assistant Professor, Department of Computer Engineering, Sharadchandra Pawar College of Engineering, Otur, Pune, Maharashtra, India -----</p> <p>3)Avdesh Kumar Sharma Address of Applicant :Assistant Professor, Department of CSE, Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore, Ujjain Road, Indore – 53111, Madhya Pradesh, India -----</p> <p>4)Dr. Deepak A. Vidhate Address of Applicant :Professor & Head, Department of Information Technology, Dr. Vithalrao Vikhe Patil College of Engineering, PO MIDC, Vilad Ghat, Ahmednagar, Maharashtra, India -----</p> <p>5)Dr. Arun Kumar Gupta Address of Applicant :Assistant professor, Department of Chemical Engineering, UIET CSJM University, Kanpur, Uttar Pradesh, India -----</p> <p>6)Ms Soniya Sunil Paimode Address of Applicant :Assistant Professor, Department of Mechanical Engineering, P K Technical Campus, Faculty of Engineering, Diploma and MBA, Gat No. 714, Kadachiwadi, Chakan-Shikrapur Road, Chakan, Khed, Pune, Maharashtra, India -----</p> <p>7)Abhinav Vidwans Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, RGPV Bhopal, IPS CTM Gwalior, IPS GOC campus Shivpuri link road, Gwalior, Madhya Pradesh, India -----</p> <p>8)Dr. Sharad Timaji Tajane Address of Applicant :Assistant Professor, Department of Chemistry, M.M. College of Arts, N.M. Institute of Science & HRJ College of Commerce, Bhavan's College (Autonomous), Andheri West Mumbai – 400058, Maharashtra, India -----</p> <p>9)Sasthi Kumar C Address of Applicant :Assistant Professor, Department of Computer Science, Karpagam Academy of Higher Education, Echanari, Coimbatore, Tamilnadu, India -----</p> <p>10)Soumya Bajpai Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, RGPV Bhopal, IPS CTM Gwalior, IPS GOC campus Shivpuri link road, Gwalior, Madhya Pradesh, India -----</p> <p>11)M. Sugadeva Boopathi Address of Applicant :Assistant Professor, Department of Mechanical, Jeppiaar Institute of Technology College Chennai, Sriperumbudur, knnum, Kancheepuram, Tamilnadu -----</p>
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(57) Abstract :

SMART FARMING SYSTEM TO ENHANCE THE SMART IRRIGATION TO HELP FARMERS FOR EFFICIENT IRRIGATION, SOIL EROSION AND CROP-SPECIFIC IRRIGATION USING IOT AND MACHINE LEARNING APPROACHES Abstract: Agriculture is essential to the prosperity of the nation. More than 72% of our people are employed in agriculture, and 35% of the general population works in the fields. So, it is essential to address the concerns and obstacles in agriculture that are limiting the nation's advancement. Some argue that adopting cutting-edge agricultural technology is the only solution to this issue. Irrigation is a technique for promoting plant growth by delivering precisely the right amount of water to the soil at precisely the right moment. A sensor-based autonomous watering system is an intriguing answer to the difficulties of managing agricultural operations. This study examines environmentally friendly agricultural irrigation technologies in depth.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014226 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : MERCHANDISE TRACKING AND AUTHENTICITY CONFIRMATION BY FORWARD AUTHORIZATION

(51) International classification :A47F 011200, G06Q 100800, G11B 070900, G16H 201000, H02S 203200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

MERCHANDISE TRACKING AND AUTHENTICITY CONFIRMATION BY FORWARD AUTHORIZATION A system of merchandise tracking and authentication is proposed which does not impose the burden of any action on the End Users (or customers). It also does not require the generation of multiple and sophisticated identifications to detect counterfeit merchandise. The system simply relies on the method of the OEMs or Importers (referred to as Originators) of the merchandise to authorize the next level Resellers (a collective term which includes distributors, franchisees, dealers, factory outlets, resellers, and retailers) when the merchandise is shipped to the Reseller from the Originator. The Reseller does the same when he/she ships the products to one or more next-level Resellers, thus forming a chain of forward authorization. At each stage, such forward authorizations are authenticated and verified by a central server and the transaction data is stored. Finally, when the merchandise is sold to the End User (the customer), the transaction data is verified and a message is sent confirming the authenticity of the merchandise to the End User proactively (without requiring the End User to take any action). The system also provides insights to the Originators and Resellers about the quantum of products sold, the quantum of products unsold and lying-in warehouses at various downstream Resellers, sale data based on the regions, the season of the year, products, and product category, by Resellers.

No. of Pages : 15 No. of Claims : 17

(54) Title of the invention : AN APPARATUS FOR ROTATIONAL KINETIC ENERGY

(51) International classification :B60K 062600, B60W 100200, F02C 072600, F03B 170600, F16H 013200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to AN APPARATUS FOR ROTATIONAL KINETIC ENERGY it including: A central shaft (10) which rotates on ball bearings (19) to which two wheels (21) are fixed. Two extended arms (13) are fitted vertically on each wheel. A main bevel gear (23) with a spur gear (12) is fitted on the central shaft and it rotates on ball bearings (19). The extended arms (13) of the two wheels (21) are connected to each other by a horizontal shaft (15). Each horizontal shaft (15) moves on ball bearing. A lever arm (16) with an iron block(17) at its lower end is vertically fixed on each horizontal shaft (15). When the input force is applied by a motor (11), the front side of the device move upward and back side move downward and vice versa and the two lever arms (16) with iron block (17) move vertically in opposite direction and rotate their respective horizontal shafts (15), thus rotational kinetic energy is generated on each horizontal shaft (15). The kinetic energy generated is transferred using bevel gears (18).

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014229 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : UHPLC METHOD FOR ESTIMATION OF DIOSMIN IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF

(51) International classification :A61B 051600, A61K 317048, A61K 450600, A61P 311200, C08G 770000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a simple, accurate and precise method for the estimation of Diosmin in pharmaceutical dosage form. The method for estimation of Diosmin, comprising: running chromatogram through column C18 100 x 2.1mm, 1.8m; taking mobile phase 0.1% ortho phosphoric acid buffer and acetonitrile, in the ratio 47:53 v/v for column; pumping mobile phase through column at a flow rate of 0.98 ml/min; maintaining the column temperature at 30°C; optimizing the selected wavelength at 254nm; injecting 1µL of 60µg/ml Diosmin solution into column; running the sample for 4 minutes and recording chromatogram from the chromatograph to estimate Diosmin. The method for estimation of Diosmin, wherein the method's linearity $R^2 = 0.99958$ at a detection wavelength of 254 nm. The method for estimation of Diosmin, wherein the tailing factor 1.49 and theoretical plates 5236; relative standard deviation percentages were determined to be 0.70-0.94% and 0.60-1.1%.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014246 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Flexible MANET Experimental Platform and Routing Protocol Performance Tests under Different IoT Circumstances

(51) International classification :G01N 030400, G01R 311200, G09B 231800, H04L 451600, H04W 841800

(86) International Application No :PCT// /
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

MANETs are volatile and dynamic. These features affect network performance and should be included in MANET-related technology evaluation experiments. However, current experimentation methods either use overly abstract simulation-based models that cannot capture real-world imperfections or "monolithic" testbeds that are only suitable for a narrow set of predetermined technologies, operational scenarios, or environmental conditions. This work proposes a flexible platform that can handle many of the real-world complexities while still being flexible and customizable to enable a wide range of MANET-related experiments. The platform has clearly defined modules for peer mobile node signalling, tracking location and motion, routing protocol functionality, and message management at each node. The relevant software runs on inexpensive Raspberry Pi-based commodity hardware, which can be easily attached to robotic devices for controlled network node movement. By tuning certain modules, software can precisely control a number of important operational conditions, such as restricting the communications range or emulating node mobility patterns. A series of experiments on routing protocol performance under different network densities demonstrate the platform's efficacy and versatility.

No. of Pages : 9 No. of Claims : 3

(54) Title of the invention : AUTO TEMPERATURE DETECTOR FOR COVID-19 SAFETY THROUGH ENTRANCE/EXIT APPLICATIONS

(51) International classification :A61B 050100, A61P 311400, B03C 030000, F24F 132800, G06Q 300200

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 COVID 19 has made a huge impact on the society, the new restriction has been imposed as in the number of users allowed in a particular room in offices, shops, etc. to maintain social distancing, along with social distancing regular temperature check at entrances of malls, the office is mandatory. In this project we stimulate a room where such necessary precautions are taken, we make use of a laser diode and receiver to detect the entrance of a person, when the project detect entrance, it will check the temperature of the person if the temperature is less than the set temperature the person is allowed entry otherwise the entry is denied. Only a pre-determined number of people are allowed in the room. The allowed temperature, the number of people allowed in the room as well as the number of people actively present in the room can be set/viewed using a Bluetooth App.

No. of Pages : 8 No. of Claims : 3

(54) Title of the invention : IMPLEMENTATION OF MACHINE LEARNING AND IOT FOR EARLY WARNING AND DETECTION OF EARTHQUAKES IN COASTAL AREA

(51) International classification :E04H 090200, G06N 030800, G06N 200000, G06N 201000, G06N 202000

(86) International Application No :PCT//

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

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(62) Divisional to Application Number :NA

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(57) Abstract :
IMPLEMENTATION OF MACHINE LEARNING AND IOT FOR EARLY WARNING AND DETECTION OF EARTHQUAKES IN COASTAL AREA A plurality of sensors, each sensor sensitive to a physical phenomenon associated with seismic events and operative to output an electronic signal representative of the sensed physical phenomenon. Instructions to determine an intensity level of an earthquake based at least in part on one or more of the predominant periods and the peak displacement. Earthquake early-warning application programming as instructions executable on a computer processor in a cell phone. Acquiring accelerometer data from an accelerometer located on the said cell phone when executing said earthquake early warning application programming. A background mode for continuously monitoring acceleration registered on said cell phone and processing these accelerations to discern human activities from possible earthquake events. An early warning unit, wherein the early warning unit is a grid of decentralized controlled earthquake detection centers, and wherein the geographical locations are determined based on transmitted signals of the early warning unit.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014268 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : RESPIRATION RATE MONITORING SYSTEM USING GRAPHITE SENSOR

(51) International classification :A61B 050000, A61B 050205, A61B 050240, A61B 050800, H04L 472000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The proposed invention is based on graphite-based sensor that detects the respiration rate. The proposed invention design comprises graphite-based sensor, signal conditioning circuit and a microcontroller which has wi-fi module as shown in figure-2. The crucial effort was centered on investigating the temperature and pressure sensitivity of the graphite. Thermal conductivity of the graphite can be used to monitor the respiration rate non-invasively. After a series of experiments, the dimensions of the GOP sensor were finalized which have least variation in resistance at room temperature. The GOP sensor is low-cost, flexible, eco-friendly, highly sensitivity and doesn't require any clean rooms for manufacture. It is observed that the GOP sensor signals lie in the range 1Hz-0.5kHz, concluded from the FFT analysis of the signal. Using this signal, the respiration rate can be measured. The alerting system consisting the ESP8266 NodeMCU which has wi-fi module sends the alert message to the mobile in case of abnormal respiration rate. The whole system can be embedded on the mask and does not require any contact of the patient's philtrum. The results obtained from the simulation and hardware implementation are adequate.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014279 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An Augmented Reality (AR) based Projector with holographic application for enhancing learning skills of students in rural regions

<p>(51) International classification :A47G 291200, A61P 252800, G03H 010200, G06T 190000, G09B 050200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chaitanya Bharati Institute of Technology (CBIT) Address of Applicant :OSMAN SAGAR ROAD, Gandipet, RR District, 500 075, Telangana, India Gandipet ----- -- 2)Sri Chakra Raj Pyaraka 3)Sravan Sai Lanka 4)Navya Sree Duggi Reddy Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sri Chakra Raj Pyaraka Address of Applicant :2-2-10 / F.No.106, A Lane, Surabhi Heaven Apartments, D.D. Colony, Hyderabad, Telangana. 500013 Hyderabad ----- 2)Sravan Sai Lanka Address of Applicant :Flat No.201, 75/B MIGH, 7-1-397/31, SR Nagar, Hyderabad, Telangana. 500038 Hyderabad ----- ---- 3)Navya Sree Duggi Reddy Address of Applicant :1-24-157, Indira Nagar Colony, Lothukunta, Alwal, Secunderabad, Telangana 500015 Hyderabad -----</p>
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(57) Abstract :

An educating system consists of the integration of a HOLOGRAPHIC projector to display the 3D content we provide and also a fully dedicated AR application to view the same 3D models/ videos in mobile post the class work. appeAR focuses on improving education standards of rural areas, boosting the comprehension of students. The innovation uses Augmented reality for digital textbooks, the app augments various 3D models, video relevant to the description on the existing textbooks. This enables students to understand the concept better and experience the model practically. Teachers are equipped with the holographic display to explain the concepts, the models and videos for the holographic display are custom built by us. This content will also be used for the AR app, to make sure students can revise later at home. The package of Holographic display and AR app, will make sure students will learn, understand, and apply things practically

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014280 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN ERGONOMIC SOLAR FISH DRYER WITH REFLECTORS AND METHOD THEREOF

(51) International classification :F21S 090300, F24S 237000, F24S 256000, F24S 404000, F26B 032800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

An ergonomic dual slope solar fish drying system (110) comprising a plurality of drying chamber (80), an absorber tray (40) with handle is integrated into the drying chamber (80), plurality of polystyrene sheets, a drying wall (90), atleast two cold air inlets (10), atleast two hot air outlets (20), an exhaust pipe (70), a support structure (100), plurality of transparent covers (50) for solar radiation absorption, placed at an inclination at an angle equal to the latitude of the location of placement of the dual slope solar fish drying system (110), and atleast two compound parabolic concentrator (CPC) shaped reflectors (60) attached to the dual slope solar fish drying system (110). The reflectors (60) are designed in such a way that they can be adjusted to different heights and angles according to the position of the sun by ensuring that there is no shadowing effect on the transparent cover. Also, the height of the dual slope solar drying system (110) is designed in such a way to reduce the musculoskeletal disorders of the end-user when compared to the user working in a normal open sun drying environment. Reference Figure: Fig.1 and Fig. 2

No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : Smart grids for localising abnormal conditions detection system and method

(51) International classification :G01N 218800, G01N 219500, G06F 120200, G08B 171000, H02S 101200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

SMART GRIDS FOR LOCALISING ABNORMAL CONDITIONS DETECTION SYSTEM AND METHOD ABSTRACT In this invention, a fault detection and localization method for a Low Voltage (LV) distribution grid are presented. Two fault detection approaches were examined both suitable only for low impedance faults (up to 10 Ω of fault resistance). The first one was based on current measurements at the beginning of the feeder and the second one was based on the highest voltage drop across the feeder branches. The localization method was based solely on nodal rms voltage measurements across the grid. The localization method was divided in three steps: a) faulty branch identification, b) faulty sector localization and c) fault distance estimation. Two categories of faults were examined: single-phase to ground short-circuit (SC) faults and three-phase SC faults. Faults were divided in two major categories: a) faults in the beginning of a branch and b) faults in the middle or towards the end of a branch. Additionally, in order to study the effects of loads and micro generation units, four different hours in a day were chosen. For all of the above cases both low and high impedance faults were studied with fault resistance values ranging from Ω to 1 k Ω . Finally, a preliminary study with less available measurements was made and presented in this paper. The results have been validated by simulation means on a real semi-rural LV distribution network of Portugal.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014293 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : OFFSHORE FLOATING WAVE - SOLAR HYBRID ENERGY CONVERTER SYSTEM AND METHOD THEREOF

(51) International classification :B63B 354400, E02B 030600, F03B 132000, F03B 132200, F03D 090000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides an offshore floating wave - solar hybrid energy converter system comprising of a solar photovoltaic platform (1A), with solar panels (1B) constructed on the column structures (14A, 14B, 14C, and 14D) of a floating buoy (2). A spar (5) is provided with a linear permanent magnet generator. The spar (5) platform is submerged in the water, connected to tether (7) which is anchored to seabed (8). The solar photovoltaic platform (1A) is placed on the buoy (2) above the water level. The wave energy converter involves the motion of a floating buoy (2) due to incident water waves. subsequently the motion of the floating buoy is converted into a reciprocating motion of the linear generator shaft arrangement. The continuous reciprocating motion causes the generator to produce electrical energy. Simultaneously, the solar panels produce electrical energy from solar radiation, resulting in mass power generation. (Figure to be published along with abstract: Figure 1).

No. of Pages : 17 No. of Claims : 13

(54) Title of the invention : COMPACT MULTIPLEXING ANTENNA FOR WEARABLE APPLICATIONS AND METHOD OF FABRICATING

(51) International classification	:A61B 050000, B29C 480000, E04H 011200, G06F 011600, G06F 216000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present subject matter relates to a multiplexing antenna and method of fabricating it for wearable applications. The multiplexing antenna(100) comprises a dielectric substrate(102), a ground plane, a rectangular patch(104), an array of metallic vias(106), at least a radiator(108), and at least a feed port(110). The radiator(108) extends from the edge, of the rectangular patch(104), opposite to the array of metallic vias(106). The radiator(108) is formed by bisecting a semi-circular radiator at the maximum electric field point to form a quarter circle-shaped multiplexing substrate integrated waveguide (QCMSIW) antenna(100). The multiple radiators are positioned on opposite sides of the rectangular patch sharing the array of metallic vias. A gap(114) is provided in the rectangular patch, between two ports, dividing the array of metallic vias to subarrays to increase port isolation. The dimensions of the rectangular patch(104), the metallic vias(106), and the radiators(108) are optimised for the respective frequency range.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : SOLAR DESALINATION SYSTEM USING CeO2-MWCNT HYBRID NANOFUID

(51) International classification :C02F 010000, C02F 011400, C02F 014400, C02F 030800, C09K 051000

(86) International Application No :PCT//

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :
 The present invention provides a performance enhancement of solar desalination system using CeO2-MWCNT hybrid nanofluid. A hybrid nanofluid was prepared using a two-step method with cerium oxide (CeO2) nanoparticles and multi-walled carbon nanotubes (MWCNTs) in a ratio of 80:20. The concentrations of hybrid nanofluids investigated were 0.02%, 0.04%, and 0.06%. The surfactant cetyltrimethylammonium bromide (CTAB) was used to keep the hybrid nanofluid stable. The modified still (MS) achieved a maximum production of 1430 ml compared to the conventional still's (CS) maximum output of 920 ml. The CPL (cost per liter) for MS was 0.039 USD, and for CS, it was 0.045 USD. The levels of TDS in the MS and CS were 96.38% and 92.55% lower than those in saline water

No. of Pages : 28 No. of Claims : 6

(54) Title of the invention : Micro - Implant Positioning Guide

(51) International classification	:A61B 170000, A61B 171700, A61C 010800, H01L 234330, H01L 251800
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
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(57) Abstract :
ABSTRACT [500] Our Invention "Micro Implant Positioning Guide " is a versatile multiloop wire guide that can be used to determine the safe zone for interradicular micro- implant placement, thereby mini- mizing the risk of root injury and implant failure. A piece of .018" A.J. Wilcock wire is straightened, and multiple 2.5mm loops with a loop-forming plier are formed, keeping the loops in the same plane. The number of loops can vary from two to five, depending on the pa- tient's vestibular depth. The wire is marked at the level of the mesial tooth's bracket slot and is bent at a right angle towards the occlusal surface and leaving about 2-4mm to offset the loops from the soft tissues, another right angled bend is placed. The wire is secured in the mesial bracket with an elastomeric ligature. A radiograph is used to identify the wire loop encircling the best site for micro-implant placement, based on root locations and bone levels. Finally the microimplant is inserted through the selected loop.

No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : Pinnacle Positioner (PP): A Clinical Advanced Innovation

(51) International classification :A61K 360760, A61K 366500, G16H 402000, H01P 110000, H01Q 130200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT [500] Our Invention “Pinnacle Positioner (PP): A Clinical Advanced Innovation” is a dental splint designed for the immobilization of lingual retainers or stabilization of loose/mobile teeth. Splinting provides rest during periodontal wound healing and comfort/support in performing a function in cases of reduced/weakened periodontium. In orthodontics, the stability of the final occlusion is as important as the correction achieved. Since the beginning of the century, fixed retainers have been recommended after correction of malocclusion (rotation, crowding, space closure etc.). However, bonding a lingual wire is still challenging as it requires a long working time and has a risk of contamination from saliva and moisture which can cause bonding failure. Several techniques are used to keep the retainer wire in the proper position during direct bonding, of lingual bonded retainers. Proper placement helps prevent occlusal wear of the composite over the retainer wire, thus reducing the risk of breakage. This article describes a new chairside time-saving, reusable wire positioner that allows accurate placement and direct bonding of all types of fixed lingual retainers/periodontal splinting with solid or multistrand wires.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014390 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IOT-ENABLED HEADGEAR FOR SMART WORKERS

(51) International classification :A42B 030400, A61M 160600, B61L 230600, H04L 671200, H04N 071800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The number of Mine & Construction workers passing away at the site is rising daily. However, there are still no opportunities to lower this fatality rate. Therefore, this system suggests a smart flexible helmet for the workers to provide security and rescue measures in case of any panic circumstances. This helmet is intended to provide constant observation of the labours and to prevent them from any health threats while working. The project's goal is to make construction sites safer and more secure for workers, hence lowering the number of fatalities. To safeguard the Worker, the helmet has a variety of sensors. The internet of things-based smart helmet is put together by combining all the components into a single helmet. The suggested methodology outlines a clever

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014467 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AFFORDABLE ALTERNATIVE TO BIONIC ARM: VOICE-CONTROLLED PROSTHETIC ARM

(51) International classification :A61F 025400, A61F 025800, A61F 027200, G10L 152200, G10L 152600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT AFFORDABLE ALTERNATIVE TO BIONIC ARM: VOICE-CONTROLLED PROSTHETIC ARM Persons' with disability are usually overlooked in our society, where public transport is not equipped to help the disabled. Bionic arms are the perfect combination of technology and science giving rise to an innovation that is extremely useful in improving the quality of life of many people. People who have lost their hands in accidents or have any disability with hand movements buy bionic hands to continue living normally. The proposed innovation " Affordable alternative to bionic arm: Voice-controlled prosthetic arm" is focused to deliver a prototype of Bionic arm with additional functionalities and simultaneously minimizing manufacturing costs to make it accessible to common people. The proposed device is equipped with fall detection mechanism along with SOS emergency system to avoid any mishap. A dedicated application is developed for users to interact more effectively with the model via voice command.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014472 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : HERBICIDAL COMPOSITION OF PYROXASULFONE, OXYFLUORFEN AND AN ADDITIONAL HERBICIDE

(51) International classification :A01H 064600, A01N 251400, A01N 332200, A01N 438000, C07K 144150
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT HERBICIDAL COMPOSITION OF PYROXASULFONE, OXYFLUORFEN AND AN ADDITIONAL HERBICIDE
The present invention generally relates to the field of agro-chemicals. Particularly the present invention relates to a synergistic herbicidal composition comprising Pyroxasulfone, Oxyfluorfen, and an additional herbicide selected from Sulfosulfuron and Metribuzin with one or more agrochemical additives.

No. of Pages : 36 No. of Claims : 10

(54) Title of the invention : A CUSTOMISED AI EDGE SYSTEM FOR REAL-TIME UNDERWATER OBJECT TRACKING AND POSITIONING AND METHOD THEREOF

(51) International classification :B63H 201000, G01C 211600, G01C 213600, G06F 161700, H04W 040200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A CUSTOMISED AI EDGE SYSTEM FOR REAL-TIME UNDERWATER OBJECT TRACKING AND POSITIONING AND METHOD THEREOF The present disclosure discloses a customized artificial intelligence (AI) edge system for real-time underwater tracking and positioning of a desired object. The system comprises a repository (102), an image acquisition unit (104), a sonar unit (106), a processing unit (108), and a communication unit. The repository (102) stores a dataset of the underwater desired object-like image. The image acquisition unit (104) is recording and capturing underwater images. The sonar unit (106) detects the underwater environment and generates final radiation. The processing unit (108) is coupled to the image acquisition unit (104) and the sonar unit (106) to identify a desired object image in the recorded underwater images using the dataset of underwater desired object-like images and calculating a position of the identified desired object using the final radiation. The communication unit transmit the desired object image, the position, the final radiation, and the recording to an external terminal.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014485 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A CONCRETE ADMIXTURE INFILLED IN A COMPOSITE COLUMN

(51) International classification :C04B 400000, E04B 013800, E04B 050200, E04C 033400, E04C 033600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT A CONCRETE ADMIXTURE INFILLED IN A COMPOSITE COLUMN The present disclosure envisages a concrete admixture (100) infilled in a composite column (102). The concrete admixture (100) for a composite column (102) comprising, a predefined amount of a concrete (104); a predefined amount of an expansive cement (106); and the concrete (104) and the expansive cement (106) are allowed to be mixed in a pre-defined mass ratio to form the concrete admixture (100). The concrete admixture (100) reduces the shrinkage stresses, voids (112) and cracks (114) development.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014486 A

(19) INDIA

(22) Date of filing of Application :03/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN ORTHOSIS DEVICE FOR SUPPORTING A BODY PART OF A PERSON

(51) International classification :A61F 050100, A61F 050200, A61F 070000, G06F 167830, H03K 179550
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN ORTHOSIS DEVICE FOR SUPPORTING A BODY PART OF A PERSON The present disclosure discloses an orthosis device (100) for supporting a body part of a person comprising a cuff (10) configured to be attached to the body part of the person to support the body part, slots (20) configured on opposite sides of said cuff (10). A support member (30) is removably engaged in said slots (20) to position said cuff (10) at a desired location on the body part of the person. Straps (40) are attached to said cuff (10) and configured to removably secure said cuff (10) at the desired location on the body part of the person.

No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : A LATCH ASSEMBLY

(51) International classification :A01K 010200, B60G 111600, B60L 582100, E05B 810600, E21B 070600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A LATCH ASSEMBLY An example latch assembly is described. In an example, the latch assembly comprises a first element having a first end and a second end, wherein the first element is pivotable about a point lying between the first end and the second end. The latch assembly also comprises a second element movable between an initial position and an extended position, the second element comprising a movable end, an extended portion, and a protruding member. The second element is coupled by a resilient member at the movable end with the second end of the first element. An actuator within the latch assembly is coupled to a cam, wherein the cam is to rotate and is to come into contact and abut against the extended portion of the second element and is to cause the protruding member of the second element to disengage from the first element.

No. of Pages : 23 No. of Claims : 15

(54) Title of the invention : PRODUCTION OF ECO-FRIENDLY BIO PLASTIC CUPS FROM AGRO WASTES

(51) International classification :B65G 479000, C07K 143950, C08F 100000, C08K 033400, G01N 270200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Production of Eco-friendly Bio plastic Cups from Agro wastes ABSTRACT The Current Study of Plastic or Styrofoam based products are highly toxic and non-degradable. Leads to soil, water and air pollution .Dumping of agro wastes like banana stem after harvesting of fruit and Dumping of banana peel which is an agro industrial waste from fruit industry and chips industry are other challenging problems. The dumped wastes act as source of emission of green house gases, breeding site of mosquitoes and for growth of fungi and bacteria. Production of Eco-friendly Bio plastic Cups from Agro wastes” is the solution to both the problems. Making Bio-plastic from banana peel instead of petroleum based plastic is an effective solution leading to reduction in the use of non renewable raw materials. Banana peel waste is abundantly available from fruit industry and banana chips manufacturing units. The banana stem fibre is another huge waste, the fibre of which can be used to enhance the strength of bio plastic.

No. of Pages : 14 No. of Claims : 9

(54) Title of the invention : BIOSENSOR DEVICE TO DETECT LUNG CANCER USING MACHINE LEARNING

(51) International classification :A61B 050000, G01N 274140, G01N 335430, G06N 030800, G06N 200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
BIOSENSOR DEVICE TO DETECT LUNG CANCER USING MACHINE LEARNING Abstract: With early detection, the mortality rate from cancer, particularly lung cancer, can be dramatically lowered. Researchers from all around the world have devoted a considerable amount of work to evaluating the efficacy of various lung cancer screening techniques. Screening methods include CT scans, chest CT scans, positron emission tomography, sputum cytology, MRI scans, and biopsies. Unfortunately, these methods are ineffective for persons with a range of medical conditions. Thus, it is essential to develop a rapid and accurate approach for early lung cancer detection. In recent years, interest for implementing biosensor-based approaches to detect early lung cancer signs has increased. This article reviews recent advances in screening techniques and biosensor-based technology for early lung cancer detection.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : A study towards the Analysis of Flipkart latest launch “Flipkart Quick - A 90 mins delivery service” in urban cities and its impact in Commercial sale and Economic growth in India

<p>(51) International classification :A61K 367400, E01C 010400, G06Q 100400, G06Q 300600, G06Q 502600</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)S.Sivakavitha Address of Applicant :Assistant Professor Department of Corporate Secretaryship and Accounting Finance College of Science and Humanities SRM Institute of Science and Technology, Chennai Chengalpet (District) Tamil Nadu ----- 2)Mr.J.PRABHURAJ 3)T Muthukalyani 4)Dr.D.Bhuvanewari 5)Dr. G Sangeetha 6)Dr. M. Hemanathan 7)Dr R.Sridharan 8)Dr. M. JEEVARATHINAM Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)S.Sivakavitha Address of Applicant :Assistant Professor Department of Corporate Secretaryship and Accounting Finance College of Science and Humanities SRM Institute of Science and Technology, Chennai Chengalpet (District) Tamil Nadu ----- 2)Mr.J.PRABHURAJ Address of Applicant :RESEARCH SCHOLAR DEPARTMENT OF COMMERCE, COLLEGE OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Chengalpattu Tamil Nadu ----- 3)T Muthukalyani Address of Applicant :Assistant Professor, Department of Commerce, College of Science and humanities, SRM Institute of Science and Technology, Kattankulathur. Chengalpattu, Tamil Nadu. ----- 4)Dr.D.Bhuvanewari Address of Applicant :Assistant Professor, Department of Commerce, College of Science and Humanities, SRM Institute of Science and Technology, KATTANKULATHUR, Chengalpattu, Tamil Nadu ----- 5)Dr. G Sangeetha Address of Applicant :Assistant Professor, Department of Commerce, College of Science and humanities, SRM Institute of Science and Technology, Kattankulathur. Chengalpattu, Tamil Nadu. ----- 6)Dr. M. Hemanathan Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE, COLLEGE OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Chengalpattu Tamil Nadu ----- 7)Dr R.Sridharan Address of Applicant :Associate Professor, Department of Commerce, College of science and humanities, SRM institute of science and technology kattankulathur Chengalpattu Tamil Nadu ----- 8)Dr. M. JEEVARATHINAM Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE, COLLEGE OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Chengalpattu Tamil Nadu -----</p>
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(57) Abstract :
A study towards the Analysis of Flipkart latest launch “Flipkart Quick - A 90 mins delivery service” in urban cities and its impact in Commercial sale and Economic growth in India Abstract: With the initial launch of Flipkart Fast, groceries were delivered within 90 minutes. As more individuals using the service, the wait time fell to between 30 and 45 minutes. In recent years, Flipkart has shifted its emphasis from its original fast delivery service (Flipkart Quick) to its new grocery delivery model (Flipkart Supermart). According to a Flipkart representative, "Flipkart Fast has contracted from a handful of cities to a handful of destinations. This objective is to build a long-term business plan for Fresh Food-centered Fast Commerce." In June 2022, fifty percent of Flipkart Fast orders were for perishable foods. With the initial launch of Flipkart Fast, groceries were delivered within 90 minutes. As more individuals using the service, the wait time fell to between 30 and 45 minutes. Flipkart's Vice President and Head of Food, Smrithi Ravichandran, told businessline in June that the company aimed to offer same-day delivery in Chennai for the first time. The initiative had been a success in five additional cities. After nearly five months, Flipkart Quick did the expected thing and downsized its staff.

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : THIRD EYE - SMART SECURITY AND SURVEILLANCE SYSTEM

(51) International classification :G06F 030600, G06Q 100800, G08B 131960, H04N 071800, H04W 120600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

Nowadays, security and Surveillance have become most essential part of Human life. Security and surveillance using CCTV cameras at public places has become a common practice throughout the world due to increasing crime related issues in today's world. With the increasing rate of crime and terrorism, it is the necessity of day to day life to ensure the safety and security at public places. CCTV cameras are one of the most effective tools for providing security and surveillance in public places. CCTV cameras are used to monitor public places such as shopping malls, parks, streets, Banks, Businesses, Industries, Schools and Colleges, Railway Stations, Tourist Places, Public places, Religious places and other areas where people gather. They are used to detect suspicious activity, identify potential threats. The most common problems with the CCTV Camera are purposely disabling before any misdeed is carried out, technical errors etc. This proposal has sincerely attempted to overcome the said problem. The invention presents a product related to Smart Security and Surveillance System. The system has two cameras Master (Primary) camera and hidden Slave (Secondary) camera interconnected to each other through an embedded processor. The primary camera is meant to continuously capture the live footages of the focused area. However if the Primary camera is disabled, then the vibration sensor imbibed in it detects the damage and sends a signal to the processor. The processor is connected to the Secondary camera which is hidden at the spot and acts like an alternate camera. The alerting system and the secondary camera are activated and the footage capturing action is continued further. This system is very helpful in easy detection and effective identification of the culprits.

No. of Pages : 12 No. of Claims : 2

(54) Title of the invention : DESIGN MODIFIED ROTOR FOR WIND TURBINE TO ENHANCE THE EFFICIENCY

(51) International classification :A61P 310000, F03D 010600, F03D 070200, F03D 092500, F03D 131000

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 A green and sustainable energy that has grown in popularity recently is wind energy. Energy produced from non-renewable resources including coal, oil, natural gas, and large- and medium-sized hydropower is running out. The world is paying greater attention these days to wind energy. With the rising focus on wind energy, long blade designs and the production of big horizontal-axis wind turbines have developed with a cost benefit. The cost of the wind turbine will drop per unit as single-unit power increases. In a wind turbine, energy is generated by the blades through the transmission of torque. When designing for enormous structures, the rigidity of the blade is the key consideration. Additionally, the blade needs to be sturdy enough to bend without clashing with the tower during high wind conditions. If enough bending stiffness is provided, the blade's weight will go up. The operation, fatigue life, and energy output of the wind turbine are all significantly impacted by the weight of the blade material, which also creates transportation issues. To lighten the blade's load and solve the aforementioned issues, this invention offers a redesigned rotor.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : A SMART AND ADVANCED SELF-PHASED LEARNING DEVICE TO TEACH ENGLISH LANGUAGE AND PRONUNCIATION OF WORDS

(51) International classification :G06N 030800, G09B 050600, G09B 190400, G09B 190600, G10L 150600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A SMART AND ADVANCED SELF PHASED LEARNING DEVICE TO TEACH ENGLISH LANGUAGE AND PRONUNCIATION OF WORDS A first server storage unit for storing dictionary data, image data, and sound data about English words in association with one another. A server communication unit for transmitting the user-created word list to the English learning apparatus over a computer network, wherein the English learning apparatus. A speech recognition apparatus for recognizing one or more words of a predetermined language from speech data representing one or more words of said predetermined language contained in a speech of said predetermined language spoken by a speaker who mainly speaks a language other than the predetermined language. Upon receiving the user's selection for the graphic, the learning information included in the selected learning theme is classified and displayed as learning information by grade. One or more words were output in a speech output by the electronic device, and wherein the error is an error in speech synthesis of one or more words. Pronounced using the two or more candidates for the particular words being stored in the pronunciation dictionary and corresponding Accumulation scores to identify the language of the particular words.

No. of Pages : 16 No. of Claims : 1

(54) Title of the invention : BATTERY- OPERATED AUTOMATIC BOOM SPRAYER

(51) International classification :A01M 070000, F16H 590800, G16H 304000, H05K 011100,
 H05K 011800
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :
 Spraying is one of the crucial and extensively used procedures in crop production that helps to boost the yield of the crop. The proper selection of pesticides and application of correct dose at proper time are not only the attributes of a good Performance in pest control, but in order to obtain maximum returns from their Use, it is necessary to select the most efficient equipment for securing uniform Deposit of pesticide on the target without any wastage of materials in least time and with minimum labour and fatigue. The Battery-operated automatic boom sprayer Technology is most suitable for energy alternate device for power sprayers. These energy sources are safe, risk-free, and do not affect either people or the environment. It was noted that the field's spray dispersal was consistent. Under field circumstances, the sprayer performed satisfactorily. Chemicals, bio-pesticides, or herbicides can also be sprayed on vegetables, row crops, and orchard crops. The newly created sprayer reduced labour tedium, saved time, and was ideal for huge growers. This sprayer was simple to use and environmentally friendly. The engine powered sprayer releases gases that are not environmentally friendly and requires fuel that is very expensive. As a result, the engine-powered sprayer has a significant operating expense. A battery-operated sprayer has been suggested as a solution to these issues based on the fundamentals of spraying. The battery's direct current powers this system. In this study, deals with BOK design. Description including test procedures adopted under both laboratory conditions as Well as in field condition. Discussed parameters like nozzle discharge rate, swath width, spray angle, Spray distribution pattern and droplet size etc. Theoretical field capacity and Effective field capacity were measured. The energy alternative device for powering Sprayers is best suited for the battery-operated automatic boom Sprayer technology. Keywords: Nozzle discharge, Boom sprayer, Sprayer pattern, Spray angle, Droplet size

No. of Pages : 21 No. of Claims : 5

(54) Title of the invention : Intelligent Robotic Image Guide Biopsy

(51) International classification :A61B 100200, A61B 100400, A61B 342000, A61B 901100, G02B 060600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Despite extensive research, the use of robotics in various areas of healthcare is still uncommon. Conventional biopsy techniques rely on the radiologist manually inserting the needle, however robotic procedures add more stiffness and precision using a more stable robotic manipulator than human hands. It more precisely supports the retraction of the needle while still taking a tissue sample. Existing biopsy module lacks in reliability, accuracy, and sensitivity towards clinical diagnosis. Recent advances in robotic image guiding module towards acquiring biopsy samples plays vital role for clinical diagnosis. Our Invention “Intelligent Robotic Image Guide Biopsy” is a Medical instrument, designed to acquire biopsy sample of soft tissue or bone. This device comprises of biopsy gun and needle. This gun has an insertion mechanism that triggers the biopsy needle with the least amount of force possible so that it strikes and penetrates the intended tissue organ. A frame that firmly supports the biopsy needle, a disposable syringe with a plunger attached, and a trigger. While the device is in use, the triggering mechanism activates the firing mechanism, causing the frame to thrust forward with the needle and associated syringe with enough force for the needle to pierce the target tissue organ and core a first tissue sample. When the plunger is held in a rearward position while the syringe fires forward, a vacuum is formed in the disposable syringe that can be utilised to extract a second tissue sample up through the biopsy needle. The first tissue sample taken during a bone biopsy is a sample of bone, while the second sample is a liquid sample of bone marrow. An instrument for tissue biopsy is made up of an outer needle that is loaded by a second spring and held in place by a third trigger, an inner needle that is loaded by a first spring and held in place by a first trigger, an outer housing that encloses the first and second needles, and a handle that is attached.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014598 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Health Information Exchange Framework Using Block-Chain and Prediction of Cardiac Disease using Naïve Bayes Algorithm

(51) International classification :A61P 090000, A61P 091000, G16H 106000, G16H 406700, G16H 503000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention relates to a health information exchange framework for predicting cardiac diseases using machine learning and block chain technology. The framework includes a block chain network for securely storing and sharing medical data, and a Naive Bayes algorithm for predicting the likelihood of cardiac diseases based on patient data. The invention also includes a natural language processing algorithm for analyzing patient notes and clinical reports, an artificial neural network for predicting other health conditions, and a wearable health device for collecting real-time patient data. The Naive Bayes algorithm is trained on a dataset of patient records and medical knowledge, and applied to patient data to provide a probability score for the likelihood of cardiac diseases. The invention provides a user interface for healthcare providers to access and analyze patient data, and the block chain network is secured using advanced encryption techniques to ensure the privacy and security of patient data.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014599 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Three-dimensional Lotus Flower Model of CuO Fused Carbon dot Nanocomposites for Wastewater Treatment

(51) International classification :A61K 366200, C01B 321500, C02F 010000, C02F 015200, C09K 116500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Three-dimensional lotus flower model CuO (L-CuO) was successfully prepared and fabricated carbon dots (CDs) on L-CuO for the study of photocatalysis of 4-nitrophenol (4-NP) and antibacterial activity. The L-CuO@CDs were characterized by UV-visible absorption spectroscopy, fluorescence spectroscopy, FTIR, XRD, FE-SEM and TEM. The XRD revealed the crystalline morphology of L-CuO and FESEM showed the formation of lotus flower model structure L-CuO@CDs. The 3.0 wt % CDs loaded L-CuO shows greater photocatalytic activity of 4-NP compared to pure L-CuO and CDs. The enrichment was attributed to stronger visible light absorption ability and effective photogenerated charge separation of L-CuO@CDs nanocomposites. The CDs were finely fused on the surface of the L-CuO, which helps in electron transfer from CDs to L-CuO and leading to the enhancement of photocatalytic activity. The L-CuO@CDs nanocatalyst has good reusability in the cyclic degradation of 4-nitrophenol (4-NP) and antibacterial activity. Therefore, the proposed L-CuO@CDs nanocatalyst is a promising photocatalyst for treating wastewater that contains organic pollutants and antibacterial activity.

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014600 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Mood based Music System Using Machine Learning Techniques

(51) International classification :G04G 130200, G06N 030400, G06N 030800, G06N 200000, G10H 010000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention is a mood-based music system that utilizes machine learning techniques, specifically the Convolutional Neural Network (CNN) algorithm, to generate a customized playlist of music that matches the user's current emotional state. The system analyzes the user's emotional state using various methods such as facial expression recognition, heart rate monitoring, or self-reported mood ratings, and generates a playlist of songs that match the user's current emotional state. The system adjusts the playlist in real-time as the user's mood changes and utilizes audio features to identify different emotional states, providing the user with a more personalized and accurate music experience. The system can be implemented as a wearable device, a smartphone app, or in various settings such as retail stores, gyms, therapy sessions, and car audio systems, among others, to enhance the user's emotional state and overall experience

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014602 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Automation Weed Removal Robot Using IOT

(51) International classification :A01B 011600, A01G 220000, B25J 091000, B25J 091600, G16Y 401000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to an automated weed removal robot that utilizes IoT technology and artificial intelligence algorithms to efficiently and effectively remove weeds in agricultural fields. The robot is equipped with sensors and cameras that collect data on crop and weed infestations. This data is processed using a CNN algorithm to identify and differentiate between weeds and crops. The robot is programmed to remove the weeds by either spraying herbicides or physically uprooting them. The robot's movements and actions are controlled and monitored remotely using IoT technology, allowing for real-time updates and adjustments. The invention aims to reduce the need for manual labor and harmful chemical use in weed removal, ultimately improving crop yield and reducing environmental impact.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : WASTE COTTON-BASED WATER FILTER COMPOSITION AND METHOD FOR SYNTHESIS THEREOF

<p>(51) International classification :C02F 010000, C02F 012800, C08B 160000, D06M 152630, H01B 010200</p> <p>(86) International Application No :PCT/// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Jain (Deemed-to-be University) Address of Applicant :Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore ----- --</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S.K. Nataraj Address of Applicant :Professor & Group Leader, Centre for Nano and Material Sciences (CNMS), Jain (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore – 562112, India. Bangalore -----</p> <p>2)Mahadevaprasad K. N. Address of Applicant :Junior Research Fellow (JRF), Centre for Nano and Material Sciences (CNMS), Jain (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore -----</p>
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(57) Abstract :

A waste cotton-based water filter composition and method for synthesis thereof comprising: i) waste cotton biomass in range of 30-35% w/w, ii) choline chloride in range of 20-25% w/w, and iii) zinc chloride in range of 40-45% w/w. A method for synthesis of composition comprising of: i) washing waste cotton biomass with deionized water, followed by drying to obtain washed cotton biomass, ii) mixing choline chloride and zinc chloride at room temperature under continuous stirring to obtain DES, iii) washing washed cotton biomass in DES at a temperature in the range of 70-90oC to obtain a mixture and transferring mixture to an autoclave fitted with stainless steel jacket, followed by placing mixture in an oven for 16-20 hours to obtain carbon material, and iv) washing obtained carbon material with distilled water and ethanol-water solution, followed by drying in an hot air oven overnight for 70-90oC in order to obtain filter.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014604 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AEROGEL COMPOSITION FOR OIL-WATER SEPARATION AND METHOD FOR SYNTHESIS THEREOF

<p>(51) International classification :A61P 130800, B01D 170200, B01J 130000, C02F 014000, C11B 090200</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Jain (Deemed-to-be University) Address of Applicant :Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore ----- --</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S.K. Nataraj Address of Applicant :Professor & Group Leader, Centre for Nano and Material Sciences (CNMS), Jain (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore – 562112, India. Bangalore -----</p> <p>2)Santhosh K. N. Address of Applicant :Junior Research Fellow (JRF), Centre for Nano and Material Sciences (CNMS), Jain (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore -----</p>
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(57) Abstract :

An aerogel composition for oil-water separation and method for synthesis thereof comprising; i) aluminium chloride hexahydrate in range of 3-4% w/w, ii) ethanol in range of 78-82% w/w, iii) 3-aminopropyltriethoxysilane (3-APTES) in range of 5-6% w/w, iv) gelatine in range of 0.05-1% w/w, v) agar-agar in range of 0.5-1% w/w, and vi) distilled water in range of 10-11% w/w. A method for synthesis of composition comprising of following steps: i) dissolving aluminium chloride hexahydrate is dissolved in ethanol, followed by stirring for 5-15 minutes in order to obtain a precipitate that is dissolved at room temperature to obtain a solution, ii) 3-aminopropyltriethoxysilane is added in solution to obtain slurry of Al-AC, iii) the gelatin is dissolved in distilled water to obtain gelatin solution, and iv) agar-agar is dissolved in slurry of Al-AC to obtain a mixture, followed by addition of gelatin solution in mixture in order to obtain aerogel.

No. of Pages : 21 No. of Claims : 4

(54) Title of the invention : INTERACTIVE COOKING TRAINING SYSTEM

(51) International classification :A63B 240000, A63B 690000, A63B 710600, G09B 090000, G09B 232800

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 An interactive cooking training system, comprising a primary computing unit accessed by the user for cooking training, primary computing unit installed with an user-interface for sending request, a secondary computing unit associated with the system which is accessed by the cook for accepting request, a microphone integrated with the both computing units for transmitting voice commands between the user and the cook, a speaker integrated with both voice commands for providing voice commands, an artificial intelligence enabled camera integrated with each computing units for recording live activities of user/cook, a display screen integrated with each computing unit for displaying recorded activities.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014606 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : CATALYST COMPOSITION FOR CARBON DIOXIDE SYNTHESIS AND METHOD FOR SYNTHESIS THEREOF

(51) International classification :B82Y 300000, C08J 090800, C08J 091200, C08K 070600, C22C 386000
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

A catalyst composition for carbon dioxide synthesis and method for synthesis thereof comprises of: i) oxidized activated carbon in 68-72% w/w, ii) amine-functionalized imidazolium bromide in 1-2% w/w, iii) anhydrous DMF in 0.1-0.3% w/w, and iv) SOCl₂ in 26-30% w/w. A method for synthesis of a catalyst composition for carbon dioxide fixation comprising of following steps: i) dispersing carbon in anhydrous DMF under ultrasonic irradiation to obtain a dispersion, ii) adding SOCl₂ to obtain dispersion under dry conditions, iii) refluxing obtained reaction mixture to obtain a refluxed reaction mixture, iv) cooling obtained reaction mixture, followed by filtration to remove DMF and continuous washing to obtain acrylated oxidized activated carbon, v) dispersing obtained acrylated oxidized activated carbon in DMF to obtain a solution, vi) adding amine-functionalized imidazolium bromide followed by refluxing to obtain refluxed solution, and vi) cooling and filtering obtained refluxed solution, followed by washing to obtain catalyst.

No. of Pages : 28 No. of Claims : 6

(54) Title of the invention : COUMARIN-PYRIMIDINE ANALOG(S) AND METHOD FOR SYNTHESIS THEREOF

(51) International classification :A61P 250800, C07D 910400, C12N 151000, C40B 400600, H01B 010200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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Address of Applicant :Scientist-I, Dr. Prabhakar Kore Basic Science Research Centre, KLE Academy of Higher Education and Research, (KLE University- Deemed to be University), Belagavi 590010, India. Bangalore -----

(57) Abstract :

A coumarin-pyrimidine analog(s) and method for synthesis thereof of following steps: i) adding Stavudine (2',3'-didehydro, 3'-deoxythymidine) in a 50 mL round bottom flask, followed by addition of dry acetone along with activated anhydrous K₂CO₃ (Potassium Carbonate) and stirring at a temperature in the range of 55-60°C for a time duration in the range of 25-35 minutes in order to obtain a solution, ii) adding substituted 4-bromomethyl coumarin derivative in solution, followed by refluxing the solution at a temperature in the range of 55-60°C for a time duration in the range of 6-8 hours in order to obtain a reaction mixture, and iii) quenching obtained reaction mixture in ice in order to obtain a solid product, followed by filtering and washing obtained product with water, and further recrystallizing product with ethanol in order to obtain analog(s).

No. of Pages : 39 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014608 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : FOLATE TARGETED SELF-LIMITING HYPERTHERMIC GOLD NANOPARTICLES COMPOSITION AND METHOD FOR SYNTHESIS THEREOF

<p>(51) International classification :A61B 900000, A61F 070000, A61K 476900, C12N 158500, H01L 210200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)JAIN (Deemed-to-be University) Address of Applicant :Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore ----- --</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Shajesh Palantavida Address of Applicant :Associate Professor, Department of Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore – 562112, India. Bangalore -----</p> <p>2)Sharon George Address of Applicant :Junior Research Fellow, Department of Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore -----</p>
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(57) Abstract :

A folate targeted self-limiting hyperthermic gold nanoparticles composition comprising: i) folic acid in 2-3% w/w, ii) dimethyl sulfoxide in 70-75% w/w, iii) carbonyldiimidazole in 0.5-1% w/w, iv) Pluronic F127 in 14-16% w/w; and v) self-limiting hyperthermic gold nanoparticles in 7-10% w/w. A method for synthesis of the gold nanoparticle composition comprises of following steps: a) stirring Pluronic F127, folic acid, and DMSO at room temperature in round bottom flask to obtain a solution, b) adding carbonyldiimidazole to solution, followed by stirring in dark for a day to obtain a mixture, c) dialyzing mixture with deionized water for 2-4 days to obtain a sample, followed by lyophilizing and storing sample in a dry box in order to obtain a lyophilized component, and d) mixing lyophilized component with the self-limiting gold nanoparticles for a time duration in the range of 20-40 minutes to obtain the folate targeted self-limiting hyperthermic gold nanoparticles.

No. of Pages : 31 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014609 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SELF-SUSTAINING HEAT DISSIPATION DEVICE FOR ELECTRONIC GADGETS

(51) International classification :C04B 415100, F28D 150200, H01L 234270, H01L 234670, H02J 030000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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--

(57) Abstract :

A self-sustaining heat dissipation device for electronic gadgets comprises of a pneumatic powered frame 1 installed with multiple omnidirectional wheels 2 for maneuvering frame 1 over surface, an artificial intelligence enabled image capturing module 3 synchronized with an ultrasonic sensor for detecting dimension of gadget to extend/retract frame 1, multiple telescopically operated grippers 5 are configured at each corner of frame 1 for holding gadget over frame 1 in secured manner, a temperature sensor mapped over frame 1 for detecting temperature of gadget for actuating an air blower 6 for cooling gadget, multiple copper plates 8 connected with a thermoelectric generator (TEG) 10 installed over frame 1 for collecting heat produced by heat source of gadget in order to convert thermal energy into electrical energy that is stored with a battery.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014610 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SECURED MOBILE PHONE CHARGING SYSTEM FOR PUBLIC PLACES

(51) International classification :A61K 089200, G06F 121400, H02J 070000, H04M 170200, H04W 042400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A secured mobile phone charging system for public places, comprising a platform 1 fixed with ceiling portion via plurality of telescopically operated rods for placing mobile phone, a user-interface installed with computing unit for giving input commands for charging mobile phone, a primary camera 4 mounted on platform 1 for detecting exact location and height of user, multiple motorized sliders configured between rods and platform 1 for translating rods for positioning plates 2, a secondary camera 5 mounted on plates 2 for detecting type of charging port, a sliding unit configured between connectors and plates 2 for translating and aligning connectors, a pair of motorized clippers 6 installed on each of plates 2 for engaging connectors with phone to charge mobile phone, and a pair of L-shaped pneumatic pushers 3 installed on plates 2 for gripping mobile phone on plates 2 in a secured manner.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : TETRABUTYL AMMONIUM IODINE-SILICA (TBAI-SNT) HETEROGENOUS CATALYST COMPOSITION FOR SUSTAINABLE FIXATION OF CARBON DIOXIDE AND METHOD FOR SYNTHESIS THEREOF

(51) International classification :B01J 200800, B01J 233400, B01J 350000, C08F 100000, C08G 181800
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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(57) Abstract :

A Tetrabutyl Ammonium Iodine-Silica Nanotubes heterogeneous catalyst composition and method for synthesis thereof comprises of i) Silica nanotubes in range of 30-35% w/w, ii) TBAI in range of 50-55% w/w, and iii) ethanol in range of 10-15% w/w. A method for synthesis of composition comprises of following steps: i) oxidizing MWCNTs with conc. HNO₃ at 110-130°C for 4-8 hours, followed by washing and drying to obtain functionalized MWCNTs, ii) sonicating functionalized MWCNTs, CTAB, ethanol, and water for 4-8 hours, followed by treatment with NaOH and TEOS with continuous stirring to obtain solution, iii) subjecting obtained solution to centrifugation and washing with water and ethanol several times to obtain a black powder, iv) drying obtained black powder overnight, followed by calcination at 540-560°C for 4-8 hours to obtain white coloured amorphous silica nanotubes, v) mixing obtained SNTs with TBAI and stirring for 50-70 minutes, to obtain TBAI-SNT heterogeneous catalyst.

No. of Pages : 29 No. of Claims : 4

(54) Title of the invention : HYDROGEL COMPOSITION FOR TRACE ORGANIC SOLVENT REMOVAL FROM WATER-SOLVENT MIXTURE AND METHOD FOR SYNTHESIS THEREOF

<p>(51) International classification :A61K 090600, A61K 091600, B82Y 300000, C07C 514200, G01N 300200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)JAIN (Deemed-to-be University) Address of Applicant :Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore ----- --</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Nataraj Sanna Kotrappanavar Address of Applicant :Professor, Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore -----</p> <p>2)Ashok Shrishail Maraddi Address of Applicant :Junior Research Fellow, Centre for Nano and Material Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore -----</p>
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(57) Abstract :

A hydrogel composition for trace organic solvent removal from water-solvent mixture and method for synthesis thereof comprising of: i) acrylic acid in range of 4-8 % v/v; ii) 3% gelatin in range of 17-21 % v/v; iii) N,N'-Methylenebisacrylamide 4-8 % v/v; iv) Ammonium per-sulphate 62-66 % v/v; and v) distilled water 1-5 % v/v. A method for synthesis hydrogel comprising steps: i) adding acrylic acid drop-wise in gelatin, followed by vigorous stirring for 2-7 minutes at 65-75oC to obtain solution A, ii) dissolving N,N'-Methylenebisacrylamide and Ammonium per-sulphate in distilled water to obtain solution B, iii) adding obtained solution B in obtained solution A, followed by vigorous stirring at 55-65oC, for 4-8 hours for polymerization to obtain a mixture, iv) freezing obtained mixture at 2-5oC for 10-14 hours to obtain a hydrogel, and v)freezing obtained hydrogel at a temperature of (-15oC)-(-20oC), followed by washing with excess of water to obtain hydrogel.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014615 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PASSENGER SAFETY SYSTEM FOR VEHICLES

(51) International classification :B60R 210132, B60R 210150, B60R 224800, B60T 172200, G08G 010100
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a passenger safety system for vehicles, comprising a seat belt 1 attached at each seat of the vehicle to be fixed by passenger(s) within buckle(s) installed within the vehicle in proximity of the seats to secure the passenger(s) free movement while collision of the vehicle or sudden deceleration of the vehicle, a crash detection sensor paired with an accelerometer installed within the vehicle to detect a crash and sudden deceleration, multiple airbags 2 installed over the seat belt 1 positioned equidistant from each other, and an actuator 3 paired with each of the airbags 2 results in inflation of the airbags 2 to eliminate injuries caused to the passenger(s) by sudden locking of the seat belt 1 along with the crash.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014616 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DUST FREE AIR VENTILATION AND CONDITIONING SYSTEM

(51) International classification :A61Q 050600, A61Q 050800, B32B 270800, B60H 010000, G06F 012000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A dust free air ventilation and conditioning system, comprises of frames 1 each having a first and second portion 2, 3 developed to be installed on openings constructed on an enclosure, a touch interactive display panel for enabling a user to input details regarding a temperature to maintain inside enclosure, a primary motorized fan 4 for translate air from outer to inner surroundings of enclosure, a heating unit 5 to transferring of hot air towards inner surroundings, an electronic valve for dispensing a coolant solution towards plurality of hollow tubes 7 in order to generate cooling near to fan 4, an electric supply unit for supplying electricity to plates 8 to positively charge plates 8, a negative terminal of supplying unit to negatively charge sheet 9 for restricting dust particles during transferring of air, an electronic nozzle 10 for dispensing material within enclosure to aid in extinguishing of detected fire.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014617 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATED GROCERY VENDING SYSTEM FOR ECONOMICALLY WEAKER SECTION

(51) International classification :B62B 031400, G07F 090000, G07F 116200, G07F 170000, G07F 171200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to an automated grocery vending system for economically weaker section, comprises of a housing 1 developed to be positioned on a ground surface, a fingerprint scanner 3 for enabling a user to input finger impressions, a display panel 4 for enabling a user to input details regarding a list of grocery items required by user, a compartment 7 for storing multiple carry bags, a pair of primary robotic gripper 8 for withdrawing one of bags and engaging with multiple motorized clips 9, a motorized iris aperture 10 for opening in order to dispense items within bag, a secondary robotic gripper 11 arranged within housing 1 for gripping sealed bag and placing bag on a plate, a weight sensor for detecting successful placement of a canister over plate and an electronic nozzle 15 for dispensing a fuel stored within storage unit 16, inside canister.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014618 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATED VISION CORRECTING WEARABLE DEVICE

(51) International classification :A61B 050000, G02B 270100, G06F 011600, G06F 030100, H04W 123300
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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--

(57) Abstract :

An automated vision correcting wearable device, comprising a frame 1 configured with a pair of lenses 2 and developed to be positioned by a user on a temple region of user's face, a pair of nose pads 3 are attached with frame 1 for providing support to frame 1 while resting on user's nose, an artificial intelligence based imaging unit 4 for capturing and processing images of user, a power supply unit configured with a set of electrodes for supplying electric charge to electrodes that are further integrated within lenses 2 for adjusting optical power of lenses 2 corresponding to eyesight condition of user, and a potentiometer integrated on frame 1 and connected with power supply unit allows user to manually increase or decrease amount of charge.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014619 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SHOPPING ASSISTIVE SYSTEM

(51) International classification :A61H 010200, A61H 030000, B62D 050400, G06Q 300600, H04R 250000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

A shopping assistive system is comprising a cart 1, a touch enabled screen 2 accessed a user to input commands regarding commodities to be purchased, a server to fetch location of commodity accommodated in shopping enclosure plurality of tri-wheel assemblies 3 to maneuver cart 1 near commodities, a telescopically operated gripper 4 to place the selected commodities on an L-shaped plate 5, a bar code scanner 7 to scan bar code fabricated on commodities, a ball and socket joint to tilt plate 5 to drop commodities in the cart 1, a chamber 8 stored with fruits/vegetables, a first robotic arm 9 to grip a polybag from a container 10 to put the fruits, vegetables in polybag, a slidable lid 13 to close the cart 1, a printing to print invoice of the commodities and a QR code encrypted displayed on screen 2 scanned by user to perform payment.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014620 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : MULTI-MODE IMAGE DISPLAYING DEVICE

(51) International classification :A43B 010000, A63F 133320, A63F 137700, G06T 158000, H01L 510500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to a multi-mode image displaying device, comprises of a frame 1 developed to be positioned on a ground surface, a touch interactive display panel 3 mounted on frame 1 for enabling a user to input details regarding a type of depiction of appearance user desires to view, an artificial intelligence based images capturing module 6 mounted on frame 1 for capturing and processing multiple images of user, a telescopic rod 7 installed on frame 1 to position a canopy 8 arranged on rod 7 at an optimum height above frame 1, a LDR (Light Dependent resistor) mapped on frame 1 for detecting intensity of light incident on user and multiple LEDs 9 arranged on frame 1 for illuminating light towards user in order to aid in displaying high quality virtual reflection of user.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014621 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : CUSTOMER ASSISTIVE SYSTEM FOR BANK

(51) International classification :A61B 170000, G06Q 201400, G06Q 400200, H04N 053570, H04N 053780
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A customer assistive system for bank comprising a body 1 developed in a manner to be positioned within a bank, motorized omnidirectional wheels 2 are configured underneath body 1 for maneuvering body 1 over a ground surface, a camera 3 mounted on body 1 for capturing images of surroundings of body 1, a touch enabled screen 4 mapped on body 1 for enabling customers to select purpose of bank visit, a printing unit 5 installed on body 1 for printing form to customer that is to be filled with customer's personal information, a tray 7 installed with body 1 via a pair of motorized sliding unit 6 for translating and positioning tray 7 out from body 1, a cash withdrawal unit 8 installed with body 1 for dispensing customer-defined amount, a container 10 installed with body 1 for positioning container 10 out from body 1 for collecting cash from customer.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014622 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : BEDWETTING MANAGEMENT DEVICE

(51) International classification :A61K 092800, A61K 311670, A61K 311920, A61K 314985, A61K 316160
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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--

(57) Abstract :

A bedwetting management device, comprises of a platform 1 positioned on a ground surface, a cushion pad 2 for allowing a user to attain a supine posture, vibrating units for waking up the user, a motorized wiper 3 via an L-shaped link for removing the urine from the cushion pad 2, a motorized slider 5 for translating and positioning the link along with the wiper 3 at the exact location, an electronic nozzle 4 configured with a vessel via the slider 5 for dispensing a disinfecting solution on the exact location, a touch enabled screen 7 for enabling the user to give input commands for laying a bed sheet on the cushion pad 2, a motorized roller 10 for wrapping the bed sheet on the roller 10, a pair of motorized sliding units for laying the bed sheet on the cushion pad 2.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014623 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : TERPYRIDINE ANALOGUE AND METHOD FOR SYNTHESIS THEREOF

(51) International classification :C07D 132200, C07H 210000, C12N 151000, H01G 092000, H01L 514200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A terpyridine analogue and method for synthesis thereof comprising, i) pyridine-4-aldehyde in range 10-11% w/w, ii) 4-acetylpyridine in range 11-12% w/w, iii) ethyl cyanoacetate in range 10-11% w/w, iv) ammonium acetate in range 55-60% w/w, and v) 1,4-dioxane in range 8-9% w/w. A method for synthesis of terpyridine analogue comprising of following steps: i) mixing pyridine-4-aldehyde, 4-acetylpyridine, ethyl cyanoacetate, and ammonium acetate to obtain a mixture, ii) dissolving obtained mixture in 1,4-dioxane, followed by stirring at a temperature in range of 70-90o C for a time duration in range of 22-26 hours to obtain a reaction mixture, iii) cooling reaction mixture to room temperature, followed by pouring reaction mixture in a beaker containing distilled water to obtain a precipitate, and iv) filtering obtained precipitate, followed by washing precipitate with ethyl acetate to obtain analogue.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : SOCIAL INTERNET OF THINGS BASED TECHNIQUE TO MONITOR THE ETHICAL HACKING AND CYBER SECURITY ASPECTS

(51) International classification :G06F 162200, G06F 215700, G06N 200000, H04L 431600, H04L 671200

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Social Internet of Things based technique to monitor the Ethical Hacking and Cyber Security aspects is the proposed invention. The invention focuses on analyzing the advantages of Social Internet of Things. The proposed invention will monitor the Cyber Security and Ethical Hacking aspects.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : A HYBRID ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS BASED METHODOLOGY FOR PREDICTING AIR QUALITY IN A SMART CITY

(51) International classification :G01N 330000, G06N 030000, G06N 070000, G06N 200000, H04L 671200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 A Hybrid Artificial Intelligence and Internet of Things based methodology for predicting Air Quality in a Smart City is the proposed invention. The proposed invention focuses on predicting the air quality in smart city. The invention utilizes the algorithms of Artificial Intelligence along with Internet of Things for studying and monitoring air pollution.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014638 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : State of Charge estimation of Electric vehicle using Internet of Things (IoT) and Deep Learning

(51) International classification :B60W 201300, G01R 313670, G06N 030400, G06N 030800, G06Q 203000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention proposes a system for estimating the State of Charge (SoC) of an Electric Vehicle (EV) battery using Internet of Things (IoT) and Deep Learning techniques. The system comprises a set of sensors, a data acquisition module, a cloud-based processing unit, and a trained Deep Learning model, such as a Recurrent Neural Network (RNN). The set of sensors collects battery data, such as voltage, current, and temperature, and transmits it to the cloud-based processing unit for analysis. The Deep Learning model is trained using historical battery data and used to estimate the SoC of the battery. The estimated SoC is displayed on a dashboard or a mobile app for the EV driver or fleet manager to monitor. The system can optimize the charging and discharging of the EV battery, adapt to different battery behaviors and conditions, and enable remote management of the battery through the cloud-based processing unit. The proposed invention offers high accuracy, real-time estimation, low-cost implementation, IoT integration, scalability, adaptive learning, energy efficiency, improved safety, and patentable novelty, making it a valuable contribution to the field of EV battery management.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014644 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IOT BASED DRIVER DROWSINESS DETECTION AND SMART ALERTING SYSTEM

(51) International classification :B60K 280600, G08B 210600, G10L 151800, H04L 671200, H04W 047000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention is an IoT-based driver drowsiness detection and smart alerting system designed to detect and alert drivers in real-time when they show signs of drowsiness. The system uses multiple sensors, including a camera and accelerometer, to monitor the driver's behavior and detect drowsiness. When the system detects that the driver is drowsy, it triggers a customizable alert system to warn the driver to take a break or to pull over and rest until they are alert enough to continue driving safely. The system can also be integrated with GPS, alcohol indication, ignition key ON/OFF, map location, and drowsiness indication features to provide the driver with real-time information about their driving behavior and the road conditions. The IoT-based driver drowsiness detection and smart alerting system offers several advantages over existing drowsiness detection systems, including real-time detection, multiple sensor inputs, customizable alert system, integration with existing systems, and cost-effectiveness. Overall, the present invention is a significant advancement in transportation safety that has the potential to save many lives on the road.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : Flex sensor based lower back pain analysis system/model

<p>(51) International classification :A61B 181400, A61F 050200, A63B 600000, H04W 720400, H04W 880800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. P.Praveen Address of Applicant :Research Scholar, Department of Electronics & Instrumentation Engineering, JSS Science and Technology University, Mysuru, Karnataka, India, Pincode: 570006 -----</p> <p>2)Dr.Mallikarjunaswamy.M.S 3)Dr. Chandrashekara.S</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. P.Praveen Address of Applicant :Research Scholar, Department of Electronics & Instrumentation Engineering, JSS Science and Technology University, Mysuru, Karnataka, India, Pincode: 570006 -----</p> <p>2)Dr.Mallikarjunaswamy.M.S Address of Applicant :Associate Professor, Department of Electronics & Instrumentation Engineering, JSS Science and Technology University, Mysuru, Karnataka, India, Pincode: 570006 -----</p> <p>3)Dr. Chandrashekara.S Address of Applicant :Rheumatologist and Immunologist, Department of Clinical Immunology & Rheumatology, ChanRe Rheumatology and Immunology Center and Research, Bengaluru, Karnataka, India, Pincode: 560010 -----</p>
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(57) Abstract :

The Flex sensor-based lower back pain analysis system/model is an innovative solution for early detection and analysis of lower back pain. The system comprises a flex sensor, microcontroller, and a mobile application. The flex sensor is attached to the lower back region of the patient and records the movement data, which is processed by the microcontroller. The mobile application displays the analyzed data in a user-friendly manner for better understanding and diagnosis. The system predict the severity of the lower back pain, which aids in early diagnosis and treatment. The system is non-invasive, cost-effective, and easy to use, making it an ideal solution for monitoring and analysis of lower back pain.

No. of Pages : 19 No. of Claims : 10

<p>(51) International classification :A01C 230000, A01C 230400, A01G 222200, A01M 070000, A01N 250400</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. V.M. JOTHIPRAKASH Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>2)Dr. M. NARESHBABU 3)Dr. A.PRAVEENKUMAR 4)Dr. K.THAVASILINGAM 5)Dr. K.GOPI KANNAN 6)Mr. D.SAKTHIMURUGAN 7)Mr. J.PAULMERPUSHPARAJ 8)Dr. K.G.ASHOK 9)Dr. M. MADHAN 10)Dr. S. SANTHOSH Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. V.M. JOTHIPRAKASH Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>2)Dr. M. NARESHBABU Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>3)Dr. A.PRAVEENKUMAR Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>4)Dr. K.THAVASILINGAM Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>5)Dr. K.GOPI KANNAN Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>6)Mr. D.SAKTHIMURUGAN Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>7)Mr. J.PAULMERPUSHPARAJ Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>8)Dr. K.G.ASHOK Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>9)Dr. M. MADHAN Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ROBOTICS AND AUTOMATION EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p> <p>10)Dr. S. SANTHOSH Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ROBOTICS AND AUTOMATION EASWARI ENGINEERING COLLEGE (AUTONOMOUS) 162, BHARATHI SALAI, RAMAPURAM, CHENNAI, TAMIL NADU 600089 -----</p>
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(57) Abstract :
ABSTRACT FERTILIZER AND WATER SPRAYER MACHINE FOR AGRICULTURE PURPOSE Farming holds a predominant position. Because of changes in environment and expansion of the bugs, bothers, and so on it is essential to safeguard the harvest by being spoiled and harmed by bugs utilizing pesticides and composts. The principal objective of this task is to help the farmers by decreasing their endeavors and improve activity speed. Pesticide sprayer siphon mounted on an edge with a wheel, which is worked precisely without utilizing any outer wellspring of energy. Subsequent to finishing showering, the siphon is eliminated and supplanted by compost spreader. A multipurpose model is productive in activity. The progression of this idea forestalls the deformities of the siphon being utilized traditionally. The rancher needs to convey the pesticide in the siphon and afterward showering which is another thorough undertaking to be finished. One hand is ceaselessly occupied working the handle and the farmers do not take enough safety measures, which bring about lethal infections due to coordinate contact with the synthetics. As showering of pesticides and spreading of composts is not possible all the while, consequently by presenting a separable arrangement, the rancher will simply need to pull the truck with simple activity. The primary motivation behind delivering this item is to empower farmers and landscapers to make the cycle of splashing pesticides and herbicides to their nurseries turns out to be more powerful. It assists the grounds-keepers with working since they never again need to convey the tank on their back that can cause their back strain and hurt.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED AUTOMATIC LEAF DISEASES DETECTION SYSTEM FOR ALL TYPES OF PLANTS USING IMAGE PROCESSING, MACHINE LEARNING AND SOFT COMPUTING TECHNIQUES

<p>(51) International classification :G06K 096200, G06N 030400, G06N 030800, G06N 070000, G06N 200000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mrs. N. Gayathri Address of Applicant :Assistant Professor, Department of Computer Science, SRM Institute of Science & Technology, SRM Nagar, Chennai-Trichy Highway, Irungalur, Tamilnadu – 621105, India ----- 2)J. Vaishnavi 3)Rupashini P R 4)Kumar Chiranjeeb 5)Dr. Shrinivas Sirdeshpande 6)Prof. Sachin B Bhosale 7)Dr. Sanjeev S. Sannakki 8)M. Swapna 9)Dr. Gururaj L. Kulkarni 10)Dr. Pavan Kunchur Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mrs. N. Gayathri Address of Applicant :Assistant Professor, Department of Computer Science, SRM Institute of Science & Technology, SRM Nagar, Chennai-Trichy Highway, Irungalur, Tamilnadu – 621105, India ----- 2)J. Vaishnavi Address of Applicant :Assistant Professor, Department of Computer Science, SRM Institute of Science & Technology, SRM Nagar, Chennai-Trichy Highway, Irungalur, Tamilnadu – 621105, India ----- 3)Rupashini P R Address of Applicant :Assistant Professor Level 2, Department of Computer Science and Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamilnadu, India ----- 4)Kumar Chiranjeeb Address of Applicant :Ph.D. Scholar, Department of Soil Science, Agriculture, College of Agriculture, CSK HPKV, Room No. 319, Shivalik PG Hostel, Palampur, Himachal Pradesh, India-176062 ----- 5)Dr. Shrinivas Sirdeshpande Address of Applicant :Professor, Department of Computer Science and Engineering, KLS Vishwanathrao Deshpande Institute of Technology, Udyog Vidya Nagar, Dandeli Road, Haliyal – 581329, Uttar Kannada, Karnataka, India ----- 6)Prof. Sachin B Bhosale Address of Applicant :Assistant Professor, Department of Computer Engineering, Jaihind College of Engineering, Kuran, Maharashtra, India, Pincode:-410511 ----- 7)Dr. Sanjeev S. Sannakki Address of Applicant :Professor, Department of Computer Science and Engineering, KLS Gogte institute of technology, Belagavi, Karnataka, India ----- 8)M. Swapna Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Matrusri Engineering College, Saidabad, Hyderabad, Telangana, India ----- 9)Dr. Gururaj L. Kulkarni Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KLS, Gogte Institute of Technology, Udyambag, Belagavi, Karnataka, India ----- 10)Dr. Pavan Kunchur Address of Applicant :Associate Professor, Department of Computer Science and Engineering, KLS, Gogte Institute of Technology, Udyambag, Belagavi, Karnataka, India -----</p>
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(57) Abstract :
ARTIFICIAL INTELLIGENCE BASED AUTOMATIC LEAF DISEASES DETECTION SYSTEM FOR ALL TYPES OF PLANTS USING IMAGE PROCESSING, MACHINE LEARNING AND SOFT COMPUTING TECHNIQUES Abstract: Humans obtain the majority of their nutrition from plants. Keeping a close check on your plants on a regular basis may help you minimise production losses caused by plant diseases. Keeping track of plant diseases manually is laborious and error-prone. Using computer vision and artificial intelligence (AI) to detect plant diseases early can lessen the damage they cause and alleviate some of the problems associated with continual human monitoring. In this paper, we present a deep learning architecture that examines 18,161 photos of a tomato's leaves to determine its health (both unsegmented and segmented). The cornerstone of this architecture is EfficientNet, a new convolutional neural network. Two prominent segmentation methods, U-net and Modified U-net, are reviewed and contrasted based on how well they separate leaves. We also compare the performance of the models in binary classification (healthy leaves vs. sick leaves), six-class classification (healthy leaves vs. multiple types of sick leaves), and ten-class classification (healthy leaves vs. different kinds of sick leaves). The binary classification evaluates only whether the leaves are healthy or not. The improved U-net segmentation model could distinguish between images of leaves with an accuracy of 98.66%, an IoU of 98.5%, and a Dice score of 98.73%. Using EfficientNet-B7 to segment images enhanced performance, with 99.95% accuracy for binary classification and 99.12% accuracy for six-class classification. Both of these grouping methods utilised binary information. Using segmented data, EfficientNet-B4 was able to classify ten distinct categories of images with a 99.89% accuracy rate. After being trained using deeper neural networks and segmented images, all of the architectures dramatically enhanced their ability to diagnose disease. All the experiments covered here performed better than their predecessors.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : ANALYSIS AND STRATEGIC MANAGEMENT OF NANOPRODUCTS WITH REGARD TO THEIR SUSTAINABILITY POTENTIAL

(51) International classification :B82Y 300000, B82Y 400000, C01B 321840, C01G 230400, G06Q 100600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ANALYSIS AND STRATEGIC MANAGEMENT OF NANOPRODUCTS WITH REGARD TO THEIR SUSTAINABILITY POTENTIAL Abstract: Growing energy cost and demand has motivated many organizations to achieve smart ways to monitor, control, and save energy. Smart automation can reduce costs while still satisfying energy demand. The residential, commercial, and industrial sectors can utilize the technologies of the Internet of Things (IoT) to manage energy consumption better. This paper presents a low-cost, open-source, and reliable Supervisory Control and Data Acquisition (SCADA) system for home monitoring and control system. The presented SCADA system consists of analog sensors, ESP32, Node-RED, and Message Queuing Telemetry Transport (MQTT) through local Wi-Fi to remotely access and control appliances. This system helps the users to monitor various conditions in the home, such as temperature, humidity, pressure, and light intensity. Thus, users can remotely monitor various devices such as lights, fans, heating/cooling systems, make decisions based on the feedback of sensors. Nanotechnology has a great deal of potential because it is commonly considered a future technology. Hence, nanoparticles are seen as the driving force behind the development of novel goods in a range of industries. Because of the manner in which these materials are manufactured, they may possess properties and functions that have never been seen before. They can be used to produce raw materials, intermediary products, and finished goods. Moreover, they can be used to create novel materials. As a result of the versatility with which these technologies can be utilised, new prospects arise, particularly in the sectors of economic expansion, medical advancement, and environmental protection. This article summarises the conclusions of a comprehensive study of the technologies used to make nanostructured materials today. The goal of the study was to establish which components of these materials have the most negative environmental effects. The goal of the analysis was to understand more about these subjects. It offers a succinct summary of the most essential components of typical nanomanufacturing methods.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014651 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Socio-Cultural Framework for Teaching Reading in Diverse Classrooms through ELT

(51) International classification :G01S 050200, G09B 050600, G09B 190000,
G09B 230200, G09B 250000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No: NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Abstract A research project with a descriptive perspective was executed to build a socio-culturally oriented pedagogic approach to increase students' reading capabilities. This strategy was intended to enhance students' reading abilities. The study's population consists of 100 English teachers representing various schools. The sample size was determined by a random selection from this pool of candidates (n = 28). Analysis, synthesis, and interpretation were performed in the research, along with a survey and a look at relevant sources. The majority of students improve their reading comprehension by learning to identify core concepts; the most common reading methodologies used by teachers every so often enable social interaction among students, and the majority of students improve reading comprehension through individual tasks. As a result of this analysis, a three-part culturally based didactic method was developed: (i) academic cultural reading, which focuses on getting students ready to interpret by engaging them in socio-interactive practices; (ii) socio-interactive reading, which also centres on fostering a context in which learners can freely discuss what they've read; and (iii) subsequent socio-interactive reading, which emphasizes reflecting on the reading experience.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014652 A

(19) INDIA

(22) Date of filing of Application :04/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SYSTEM AND DEVICE FOR FALL DETECTION AND PREVENTION

(51) International classification :A61B 050000, A61B 051100, C07K 161000, G01P 151800, G08B 210400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT SYSTEM AND DEVICE FOR FALL DETECTION AND PREVENTION The present disclosure relates to the field of wearable smart devices, particularly relates to a system and device for fall detection and prevention of a user. The system and device for fall detection and prevention of a user comprising of, one or more sensors can be configured to sense one or more acceleration magnitude parameters associated with a fall pattern of a user and can generate a first set of signals corresponding to the sensed one or more acceleration magnitude parameters, a wireless communication module to communicate the acceleration magnitude parameters associated with a fall pattern to mobile computing devices, to, receive, extract, determine, generate, and send the signals corresponding to fall detection and prevention of the user. Figure 1 shall be reference figure.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014744 A

(19) INDIA

(22) Date of filing of Application :05/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A method of regenerating electricity using reinforced carbon nano composite in bicycles

(51) International classification :A61P 031000, B82Y 300000, C04B 358300, C09J 110400, H01L 216830
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A METHOD OF REGENERATING ELECTRICITY USING REINFORCED CARBON NANO COMPOSITE IN BICYCLES To advance the creation of carbon-based polymer nanocomposites, many recent discoveries and investigations have been noted. Energy storage devices, fuel cells, membrane sensors, actuators, and electromagnetic shielding are just some of the many promising applications for carbon-based materials and their composites. Among of the noteworthy properties shared by carbon and its derivatives are high conductivity, great surface area, exceptional chemical resistance, and good mechanical durability. Conducting polymers, on the other hand, have qualities that set them apart, such as docility, cheaper cost, and excellent environmental resistance (CPs). Metal oxides and carbon materials can be added to polymeric electrode materials in the right amounts and locations to improve their characteristics and performance, creating a composite that aids in the collection and accumulation of charges thanks to its vast surface area. Electrochemical energy storage systems can benefit from high-performance composites made from carbon-polymer nanocomposites because of their ability to help overcome challenges associated with reaching the high performance of polymeric compounds. This review aims to shed light on the synergistic behaviour and performance of carbon-based polymer nanocomposites, which have their share of benefits and drawbacks. Some aspects, such as morphology, exterior area, temperature, and approaches, have been observed to affect the activity of electrochemical methods, and these have been studied in relation to the three electrochemical energy storage systems and the type of electrode materials used for them in this article. In order to provide a substantial and comprehensive overview of the state of the art, this review article analyses and compiles provided data.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014746 A

(19) INDIA

(22) Date of filing of Application :05/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : VLSI layouts for connected and pyramid networks using deep neural learning

(51) International classification :G06F 303900, G06N 030400, G06N 030630, G06N 030800, G10L 253000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :

ABSTRACT VLSI LAYOUTS FOR CONNECTED AND PYRAMID NETWORKS USING DEEP NEURAL LEARNING Reducing the VLSI layout area of on-chip networks can result in lower costs and better performance. Those layouts that are more compact can result in shorter wires and therefore the signal propagation through the wires will take place in less time. The grid-pyramid network is a generalized pyramid network based on a general 2D Grid structure (such as mesh, torus, hypermesh or WK-recursive mesh). Such pyramid networks form a wide class of interconnection networks that possess rich topological properties. In this paper, we investigate these topologies from the VLSI-layout efficiency point of view. Also, we investigated on the layout of RTCC-pyramid networks that we believe can be considered in the class of Grid-pyramid networks.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014750 A

(19) INDIA

(22) Date of filing of Application :05/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SOFTWARE ENGINEERING PROCESS IN THE FRAMEWORK OF LEAN SIX SIGMA AND CAPABILITY MATURITY MODELS

(51) International classification :G06F 080000, G06F 082000, G06F 110800, G06F 163600, G06Q 100600

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Many companies struggle in some areas and excel in others. It is recommended to deploy a combined CMMI and Six Sigma system to fill in the gaps. The traditional barriers will be disrupted when this kind of integration happens. The first step to take forward is to assign CMMI to areas of implementation and Six Sigma to real projects. Keeping in mind that Six Sigma will use DMAIC or Lean to define problems and create new opportunities by clubbing these together. When Six Sigma aligns itself with CMMI's objectives, management is said to be going in the right direction, eventually creating organizational growth. As mentioned in the above sections regarding CMMI's maturity and capability levels, it can be taken to the next level of performance when matched with Six Sigma. In one instance, Six Sigma can integrate Define, Measure, Analyze, Improve, and Control methods with QPM issues to increase the maturity levels from bottom to top.

No. of Pages : 8 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014753 A

(19) INDIA

(22) Date of filing of Application :05/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Computer-Controlled Nano-Manufacturing Device for Automated Fabrication of Macro, Micro, or Nanoscale Components Assisted by Molecular Models derived from Computer-Aided Design (CAD) Data

(51) International classification :B29C 641350, B82Y 200000, F16H 611200, G01N 218800, G06F 300000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This patent discloses an automated design method, systems, and devices for synthesizing and fabricating macro, micro, or nano structures using molecular models derived from CAD data. The method uses containment test such as Point inside Polyhedron (PIP) algorithm or the like to convert 3D geometric forms on 3D geometric models such as 3D CAD model into 3D molecular formats with atomic positional information. The bulk crystalline / diamondoid molecular structures are positioned using 3D micro/nano positioning systems and fabricated using additive or subtractive micro/nano manufacturing methods. The invention also includes a method to find the optimal number of atoms required to construct any proposed geometric structure called the Critical Nano Shape (CNS) number. Additionally, the invention discloses molecular models for use in fabrication and simulation, as well as a method to automate the synthesis and database of molecular models on varying scales. The disclosed method can fully or partially automate the design process to produce valid molecular design data with positional information.

No. of Pages : 44 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014754 A

(19) INDIA

(22) Date of filing of Application :05/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ANALYSIS THE TREATMENT OF UTERINE FIBROIDS; MOLECULAR DOCKING AND DENSITY FUNCTIONAL INVESTIGATIONS

<p>(51) International classification :A61B 050000, C01B 323360, C02F 012800, C08G 611200, G16C 205000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. A. Therasa Alphonsa Address of Applicant :Assistant Professor, PG & Research Department of Chemistry, Government Arts College, C. Mutlur, Chidambaram – 608102, Tamilnadu, India Chidambaram -----</p> <p>-----</p> <p>2)Dr. G. Manikandan 3)Mr. L. Maria Anthony Kumar 4)Dr. B. Karthikeyan Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Therasa Alphonsa Address of Applicant :Assistant Professor, PG & Research Department of Chemistry, Government Arts College, C. Mutlur, Chidambaram – 608102, Tamilnadu, India Chidambaram -----</p> <p>-----</p> <p>2)Dr. G. Manikandan Address of Applicant :Assistant Professor, Department of Chemistry, Thiru Kolanjiappar Government Arts College, Virudhachalam - 606001, Tamilnadu, India Virudhachalam -----</p> <p>-----</p> <p>3)Mr. L. Maria Anthony Kumar Address of Applicant :191, Marion Cottage, 4th East Cross Salai, Muthiah Nagar, Annamalai Nagar - 608002, Tamilnadu, India Annamalai Nagar -----</p> <p>4)Dr. B. Karthikeyan Address of Applicant :F1 ZENISAI Apartment, Kangasabai Nagar, Chidambaram - 608001, Tamilnadu, India Chidambaram --</p> <p>-----</p>
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(57) Abstract :

Uterine fibroids are benign monoclonal neoplasms of the myometrium, representing the most common tumors in women worldwide. This paper comprehensively summarizes the recent research advances on uterine fibroids, focusing on risk factors, development origin, pathogenic mechanisms, and treatment options. Additionally, we describe the current treatment interventions for uterine fibroids. Finally, future perspectives on uterine fibroids studies are summarized. Deeper mechanistic insights into tumor etiology and the complexity of uterine fibroids can contribute to the progress of newer targeted therapies. In a molecular docking study, the inhibitory potential of the .studied molecule was evaluated against the penicillin-binding proteins of Staphylococcus aureus bacteria. The carbonyl group in the molecule was shown to play a significant role in antibacterial activity, four bonds were formed by the carbonyl group with the key protein of the bacteria (three favorable hydrogen bonds plus one van der Waals bond) out of six interactions. The strong antibacterial activity was also indicated by the calculated high binding energy.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014767 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A PROCESS OF PREPARATION OF SOLID STATE LITHIUM ION CONDUCTING ELECTROLYTE MEMBRANE

<p>(51) International classification :H01M 045250, H01M 100520, H01M 100525, H01M 100562, H01M 100585</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN Address of Applicant :BHARATHI PARK ROAD TATABAD, FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. RAMAN SARATHA Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF CHEMISTRY, SCHOOL OF PHYSICAL SCIENCES & COMPUTATIONAL SCIENCES, AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN, BHARATHI PARK ROAD TATABAD, FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----</p> <p>2)RAJENDRAN SHILPA Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF CHEMISTRY, SCHOOL OF PHYSICAL SCIENCES & COMPUTATIONAL SCIENCES, AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN, BHARATHI PARK ROAD TATABAD, FOREST COLLEGE CAMPUS, SAIBABA COLONY, COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----</p>
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(57) Abstract :

TITLE: A PROCESS OF PREPARATION OF SOLID STATE LITHIUM ION CONDUCTING ELECTROLYTE MEMBRANE
APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN

ABSTRACT The present invention discloses a process of preparation of biodegradable, environmentally benign biopolymer based solid state Lithium ion conducting electrolyte membrane which exhibits highest conductivity without any problem of flammability, leakage and high self-discharge, for use in batteries of small gadgets by solution casting technique. The process of the present invention characterized in mixing Biopolymer Pectin, salt of Lithium trifluoromethane sulfonate (LiTf) and ionic liquids 1,2-dimethoxyethane (DME) and 1,3-dioxalane (DOL) of predetermined ratio and stirring mechanically to form a homogenous mixture and finally pouring the homogenous mixture in a shallow container followed by drying to form Lithium ion conducting electrolyte membrane. The present invention also discloses a biodegradable, environmentally benign biopolymer based solid state Lithium ion conducting electrolyte membrane which exhibits highest conductivity without any problem of flammability, leakage and high self-discharge, for use in batteries of small gadgets prepared by the process as described above.

No. of Pages : 26 No. of Claims : 5

(54) Title of the invention : Predictive Model to Diagnose Heart Disease using a novel approach to handle heterogeneous data

(51) International classification :C23C 280000, G06N 050200, G06N 070000, G06N 200000, G06Q 300200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

In this Invention we have developed predictive models for heart disease diagnosis using CVD dataset from Cleveland database of UCI repositories and Echocardiogram dataset. The dataset is analyzed and predictive models are developed accordingly using the learning algorithms namely Basic k Nearest neighbour and proposed HET-DATA-kNN. The accuracy of the HET-DATA-kNN model is found to be 88% when compared with the baseline kNN model which has accuracy of 81%. The comparison shows that the proposed method has improved accuracy as compared to Basic k NN. The models developed are also applied on the echocardiogram dataset for prediction. The presented results show that the HET-DATA-kNN model is better than Baseline kNN model for predicting the class attribute from the echocardiogram dataset

No. of Pages : 13 No. of Claims : 1

(54) Title of the invention : Mix and Match Book for Customer Identification: A Early Stage entrepreneur’s tool kit

(51) International classification :B82Y 100000, G06Q 100600, G06Q 300200, G16H 406700, H01M 505720

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

To develop a tool that aids Converting fuzzy thinking into structured logical thinking and thereby gives complete picture about the target customer for all the budding entrepreneurs. This also helps to experimentation and identify the market and what steps are the target audience willing to take, in order to engage with the idea. Objective: To gives complete picture about the target customer to the entrepreneur, Claims: Narrow down on the most appropriate target audience for businesses , Methodology: An exercise for transforming fuzzy thinking into structured thinking, Procedure: The participant keeps certain parameters (strips) fixed while varying the rest to unlock potential combinations. This can be a go-to book for someone every time they have an idea helping clarify thoughts and fleshing out details. For example, the first strip on every page only lists gender, some pages could be male while others female. Let us say the second strip on every page lists different age group. The third strip on every page denotes different socio-economic statuses and so on. Outcome: Program participant to be able to do Experimentation (includes hypothesis formation, hypozooming and pretotyping) on market engagement i.e, to be able to formulate X% of Y will do Z statement , Where X refers to an assumed* percentage of the target audience who will directly engage with and pay for the idea. Y refers to the specific target market/ audience Z refers to the interest in the value proposition i.e., what steps are the target audience willing to take, in order to engage with the idea 1. Program participant to be able to narrow down on the target audience in terms of their personality/traits/age/gender/socio-economic traits etc. in order to specify Y in the above statement. 2. Program participant to be able to arrive at a value proposition i.e., Z component of the statement. *Note: At this stage, the X component is usually arrived at through assumptions. This will further be validated through the next exercise which primarily focuses on Localising a Hypothesis.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014812 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A PROCESS OF PREPARATION OF ANTIBACTERIAL GREENER NANOFIBERS AND PRODUCT THEREOF

(51) International classification :A23L 331350, A61P 310400, C07D 770000, G06F 011600, G06F 170000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

TITLE: A PROCESS OF PREPARATION OF ANTIBACTERIAL GREENER NANOFIBERS AND PRODUCT THEREOF
APPLICANT: SREE BALAJI MEDICAL COLLEGE AND HOSPITAL
ABSTRACT The present invention discloses a process for preparation of antibacterial greener nanofibers. The process of the present invention comprises of following steps: a. preparation of greener silver nanoparticles comprising of mixing aqueous solution of Neem gum, silver nitrate, and milli-Q water followed by autoclaving to form greener silver nanoparticles; b. preparation of cross linking reaction mixture comprising of adding aqueous solution of Neem gum, the greener silver nanoparticles, aqueous solution of sago and deionized water under predetermined reaction condition to form cross linking mixture; c. formation of Calotropis gigantea fibers comprising of cleaning and soaking fresh stems of Calotropis gigantea followed by removing washing and drying in sunlight and preparing fibers by weaving technique followed by treatment of the fibers with NaOH solution to form Calotropis gigantea fibers; d. preparation of antibacterial greener nanofibers by in-situ cross-linking the Calotropis gigantea fibers with the cross linking mixture by soaking the Calotropis gigantea fibers with the cross linking mixture followed by drying to form antibacterial greener nanofibers. The present invention also discloses an antibacterial greener nanofiber prepared by the process as described above.

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014813 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A PROCESS FOR FABRICATING SUPERFICIAL URETERAL STENT BY SURFACE COATING OF ANTIBIOTICS LOADED BIOPOLYMERIC NANOPARTICLES

(51) International classification :A61F 020400, A61L 310400, A61L 311000, A61L 311400, A61M 270000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

TITLE: A PROCESS FOR FABRICATING SUPERFICIAL URETERAL STENT BY SURFACE COATING OF ANTIBIOTICS LOADED BIOPOLYMERIC NANOPARTICLES APPLICANT: SREE BALAJI MEDICAL COLLEGE AND HOSPITAL
ABSTRACT The present invention discloses a process of preparation of cephalexin-glyoxal/ sulfamethoxazole-chitosan nanoparticles coated superficial ureteral stent superficial ureteral stent that prevents urinary bacterial adhesion even after long term deployment thereby inhibiting bacterial attachment, bacterial biofilm formation, and increased calcium carbonate encrustation. The process of the present invention comprises of following steps; a. preparation of chitosan nanoparticles; b. preparation of sulfamethoxazole-chitosan nanoparticles; c. preparation of cephalexin-glyoxal nanoparticles; d. characterised in surface coating on superficial ureteral stent by cephalexin-glyoxal/sulfamethoxazole-chitosan nanoparticles The present invention also discloses a cephalexin- glyoxal/ sulfamethoxazole-chitosan nanoparticles coated superficial ureteral stent prepared by the process as described above.

No. of Pages : 36 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014814 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SYSTEM FOR DETERMINATION OF ANTIMULLERIAN HORMONE FROM FRACTAL DIMENSION OF OVARIAN IMAGE

(51) International classification :A61B 050550, C09J 110400, G06F 093000, G06T 074800, H04W 161400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

TITLE: A SYSTEM FOR DETERMINATION OF ANTIMULLERIAN HORMONE FROM FRACTAL DIMENSION OF OVARIAN IMAGE

APPLICANT: SREE BALAJI MEDICAL COLLEGE AND HOSPITAL ABSTRACT The present invention discloses an apparatus for determining Antimullerian Hormone level from Fractal dimension of ovarian image of a subject under test. The apparatus of the present invention comprising of a. an input device, for inputting general profile information comprising of age, height and weight of the subject under test and the fractal dimension of the ovarian image of the subject under test in which the fractal dimension computed using an electrically connected ultra-sonogram; b. a characterized microcontroller electrically connected to the input device configured for characterized processing the general profile information and fractal dimension of the ovarian image and calculating the Antimullerian Hormone level of the subject under test by atleast one of the following characterized processing steps; i. $AMH = f(\text{age}, \text{fd}) = e^{-\text{age} + 10.025e^{-\text{fd}}}$, where f is a function of two variables age and fractal dimension (Error ratio $\epsilon = 0.001919$); ii. $AMH = g(\text{fd}) = 1.5433 * e^{(-0.8363 * \text{fd})} + 1.2909$, where g is a function of one variable fractal dimension (Error ratio $\epsilon = 0.002084$); c. a digital output device for receiving the processed data from the microcontroller and for displaying the calculated Antimullerian Hormone level values; d. a power supply providing the power to the input, micro controller, ultra-sonogram and the output device.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014862 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A safety device and tool for women security incorporated with cloud based crime mapping tool

(51) International classification :E21B 470228, G06F 162457, H01Q 013800, H01Q 212000, H04L 411400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A device that can cater to a huge section as a solution for women safety is provided. Corporates spend money in team engagement programs, there is huge commercial potential for corporates aligned to corporate social responsibility to distribute women safety devices as thoughtful corporate gifts for women employees to effectively utilize them during travel back and forth to the workplace. The device can be used for the old age group as well for medical emergencies SOS alerts. The mobile app can generate revenue through advertisements, women safety device for users of the stress of portability across various platforms owing to the decentralization of the product functionality which is spread across an embedded device, application software system for mobile devices and smartphone embedded sensors, making each device adapt to different mobile gadgets and also the product is light weight with little concern for maintenance due to its high level of reliability

No. of Pages : 28 No. of Claims : 9

(54) Title of the invention : A SYSTEM FOR PREDICTING STOCK PRICES AND A METHOD THEREOF

(51) International classification :G06Q 400400, G06Q 400600, G16H 406300, H04N 054450, H04N 071730

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

ABSTRACT A SYSTEM FOR PREDICTING STOCK PRICES AND A METHOD THEREOF The present disclosure relates to a system for predicting stock prices. The system includes a repository, a data collection module (104), a data processing module (106), a sentiment analysis module (108), a prediction module (110). The repository stores a pre-determined set of processing rules, a pre-defined set of classification rules, and a pre-trained predictive model. The data collection collects short messages posted on a social media platform, the short messages are related to a stock name. The data processing module (106) cleans and processes the collected short messages based on the pre-determined set of processing rules. The sentiment analysis module (108) classifies the short messages based on the assigned sentiment values using the pre-defined set of classification rules of the pre-trained predictive model for generating a classified data. The prediction module (110) predicts potential stock movement based on the received classified data.

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : DEVELOPMENT OF INDIGENOUS SENSOR BASED HYDROLOGICAL INSTRUMENTATION

(51) International classification :B01D 150800, B09C 011000, C07K 013400, G01C 130000, G06F 113600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The development of indigenous sensor-based hydrological instrumentation represents a significant improvement over traditional hydrological instrumentation by utilizing customized sensor design, local expertise, and low-cost sensors to provide more accurate and comprehensive data on water availability and quality. This technology allows for real-time data transmission, early warning systems for natural disasters, and cost-effective monitoring, contributing to more sustainable water resource management. This paper discusses the working concept and novelty aspect of indigenous sensor-based hydrological instrumentation, as well as 10 embodiments of the invention, including a customized approach to sensor design, improved water quality, and climate change resilience. Overall, indigenous sensor-based hydrological instrumentation has the potential to improve water resource management and contribute to more sustainable use of water resources in different regions and countries.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : OPTIMIZATION OF BIOMETHANATION PROCESSFOR HIGH TDS SPENT WASH FROM DISTILLERIES

(51) International classification :C02F 033400, C10L 031000, C12M 010000, C12P 050200, C12R 016450
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The production of ethanol from cane-sugar compounds in distilleries is a significant part of the economy in many countries around the globe. Molasses-derived alcohol accounts for more than 13 million m³ of the world's annual overall generation of alcohol. The aqueous distillation discharge stream that is known as wasted wash is a highly organic wastewater that is dark brown in colour. It is approximately 12-15 times as large in volume as the product alcohol. It is one of the most complicated constituents and most powerful organic industrial effluents, and its COD and BOD levels are exceedingly high. The leftover wastewater from a distillery has a significant amount of organic substitute, making it an excellent candidate for use as a source of sustainable energy. Biomethanation, followed by a two-stage biological treatment and disposal in water courses or for utilization on land for irrigation or for composting with or without biomethanation, concentration, and incineration are the technologies that are currently used by distilleries for the treatment of waste. Biomethanation is the first step in the process. These technologies each come with their own set of drawbacks. The anaerobic decomposition of debris from biomethanation processes, such as wasted laundry, results in the production of energy, which in turn decreases emissions of greenhouse gases and substitutes the utilization of fossil fuels. The extraction of methane from landfill refuse is not a novel technological development. The approach that was taken resulted in a significant amount of energy being wasted in the form of methane gas.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014923 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : FRAME WORK FOR DESIGN AND DEVELOPMENT OF ON-INVASIVE METHOD OF ANEMIA DIAGNOSIS IN RURAL AREAS

(51) International classification :A61P 070600, C11B 090000, C12M 010000, G06F 030600, G06F 112600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The World Health Organization (WHO) has identified anemia as a condition that affects a quarter of the world's population. Anemia is characterized by a deficiency of red blood cells or hemoglobin in the blood, and can be detected by examining the hemoglobin concentration level in the blood using complete blood count. However, this method is invasive, time-consuming, and costly. A preliminary non-invasive method for detecting anemia is examining the color of the palpebral conjunctiva, but this method has limitations as color perception can vary from person to person. In India, many villages are facing difficulties with medical diagnosis due to factors such as lack of money, time, and fear. To address this issue, a study aims to develop a non-invasive technique for anemia detection using smart phones. The approach proposed involves using an artificial neural network to detect anemic patients from images of the tongue and fingernails. To overcome the limitations of limited and small datasets, image augmentation techniques are used to increase the number of available training images. Computer vision algorithms are used for preprocessing and feature extraction to standardize the non-invasive method.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014935 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Path Generation and Map Construction for Mobile Robot Navigation

(51) International classification :B25J 050000, B60L 010000, G01C 212000, G05D 010000, G05D 010200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a system and method for mobile robot navigation, specifically, path generation and map construction for mobile robot navigation. The system and method use one or more sensors to collect data on the environment, analyze the data to identify obstacles and features of the environment, and construct a map based on the analyzed data. The map is then used to generate an optimal path for the mobile robot to navigate the environment, based on factors including distance, speed, and obstacles. The system and method also include the ability to adjust the navigation path in real-time based on changes in the environment detected by the sensors. Additionally, the system and method can generate a series of waypoints to guide the mobile robot to its destination. The present invention provides an efficient and accurate way for mobile robots to navigate complex environments with minimal human intervention.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : Method for Enhancing Transient Stability in Wind Energy Conversion System using Static Synchronous Series Compensator with Optimized PI Tuning

(51) International classification :F03D 010400, F03D 010600, F03D 092500, F03D 132000, H02J 031800

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to the field of wind power conversion systems and, in particular, to transient stability enhancement using optimized PI tuning of a static synchronous series compensator (SSSC). The invention proposes the use of two meta-heuristic optimization algorithms, Grey Wolf Optimization (GWO) and Teaching-Learning-Based Optimization (TLBO), for the optimal tuning of the PI controller parameters of the SSSC. The GWO algorithm is used to determine the optimal proportional and integral gains (Kp and Ki) for the SSSC, while the TLBO algorithm is used to find the optimal location of the SSSC in the system. The proposed technique is validated on a standard IEEE 14-bus system and compared with conventional methods. The simulation results show that the proposed method significantly improves the transient stability of the wind power conversion system.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : FUZZY LOGIC CONTROLLER FOR SOLAR PV INTEGRATED WITH UPQC IN THREE PHASE NETWORK

<p>(51) International classification :F21S 090300, G05B 130200, G06N 070200, G06N 070400, H02S 203200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)VIT-AP University Address of Applicant :Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SIMHACHALAM, Ravada Address of Applicant :Research Scholar, School of Electronics Engineering, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>2)PRAJAPATI, Arvind Kumar Address of Applicant :Assistant Professor Sr. Grade-1, School of Electronics Engineering, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>3)GOSWAMI, Agam Das Address of Applicant :Assistant Professor (Sr), AB-2, School of Electronics Engineering, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p>
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(57) Abstract :

A system 100 for controlling a solar photovoltaic array 102 include a plurality of first controllers 104, a plurality of second controllers 106, and a third controller 108 to compensate the swell voltage sag, interruption, and reactive power as well as harmonics of a power distribution network in a plurality of modes. The third controller 108 is integrated with unified power quality conditioner (UPQC) modeled with back-to-back connected voltage source converters, and functions for compensation of harmonics in islanding mode and an interconnected mode. The direct current link of unified power quality conditioner along with a capacitor, a solar photovoltaic array 102 is connected that contributes to voltage compensation by the first controllers 104, and harmonics compensation by the second controllers 106.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341014994 A

(19) INDIA

(22) Date of filing of Application :06/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : pH Study in Optimization of Bio-Methanation Process of High TDS Spent Wash Obtained from Distillery

(51) International classification :A61K 367520, C02F 033400, C05F 050000, C12F 031000, C12G 030200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

Molasses is a byproduct of the sugar industry that has a nature that is acidic, a colour that is dark brown, and an abundant source of sodium. Molasses is also very dense and gelatinous. Molasses typically contain sugar, but the sugar in this particular batch was unable to concentrate. It has exceptionally very high values for both the Chemical Oxygen Demand and the Biological Oxygen Demand, making it one of the most powerful organic industrial wastes and even a complicated and problematic problem. The distillery waste wash contains a high concentration of organic substances, making it a potential source of sustainable energy.

No. of Pages : 13 No. of Claims : 10

(54) Title of the invention : A SYSTEM FOR GASIFICATION OF A HIGH ASH CONTENT CARBONACEOUS MATERIAL AND A METHOD THEREOF

<p>(51) International classification :C10J 030000, C10J 034800, C10J 035600, C10N 100400, C10N 300000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF SCIENCE Address of Applicant :C V Raman Road, Bangalore 560012, Karnataka, India Bangalore -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dasappa Srinivasaiah Address of Applicant :INDIAN INSTITUTE OF SCIENCE, C V RAMAN ROAD INDIAN INSTITUTE OF SCIENCE, BENGALURU 560012, INDIA BENGALURU -----</p> <p>-</p> <p>2)Anand M Shivapuji Address of Applicant :INDIAN INSTITUTE OF SCIENCE, C V RAMAN ROAD INDIAN INSTITUTE OF SCIENCE, BENGALURU 560012, INDIA BENGALURU -----</p> <p>-</p> <p>3)Shirish Kumar Sharma Address of Applicant :INDIAN INSTITUTE OF SCIENCE, C V RAMAN ROAD INDIAN INSTITUTE OF SCIENCE, BENGALURU 560012, INDIA BENGALURU -----</p> <p>-</p>
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(57) Abstract :

Present disclosure relates to a system (100) and a method for gasification of a high ash content carbonaceous material. It includes a primary vessel (101) configured to receive a mixture of a high ash content carbonaceous material and an oxidizer, wherein the mixture undergoes devolatilization to produce a devolatilized carbonaceous material. Further, the system (100) has a secondary vessel (103) coupled with the primary vessel (101). The secondary vessel (103) is configured to receive the devolatilized carbonaceous material and gases. This devolatilized carbonaceous material and gases react for gasification of the devolatilized carbonaceous material to produce hydrogen rich syngas. The configuration of the system (100) aids in gasifying the high ash content carbonaceous material into high H2 syngas with high carbon conversion capability.

No. of Pages : 27 No. of Claims : 11

(54) Title of the invention : A METHOD AND A SYSTEM FOR ANALYSING SPORTS DATA

(51) International classification :A63B 020200, A63B 021800, A63B 240000, A63B 710200, E04F 152200

(86) International Application No :PCT// /

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

The disclosure provides a method and a system for analysing sports data. The method comprises collecting sports data by using one or more sensors. The method may include filtering the collected sports data. The method further includes, identifying type of shot from the collected sport data wherein the type of shot comprises at least a vertical, horizontal, defensive or attacking. Further, the method also includes performing classification of the shot wherein the classification comprises at least a drive, cut, pull, hook, sweep, reverse sweep, or paddle sweep.

No. of Pages : 48 No. of Claims : 18

(54) Title of the invention : Real Time Indoor Floor Detection for Mobile Robots using Iterative Approach

(51) International classification :A47L 114000, A61B 052400, G05D 010200, G06F 215500, G11C 071000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
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(57) Abstract :

This invention presents an incremental method for segmenting the floor of an interior space using only a single two-dimensional camera that is attached to a movable robot. In contrast to older methods of mobile robot navigation, which were based on geometric indications, boundaries, and the like, the segmentation of the floor is an important function for effective navigation of the environment. A mobile automaton that is equipped with a 2-D camera is able to collect pictures of surfaces throughout lengthy interior sequences. When the lighting circumstances change across a single picture, the floor and the areas that are not on the floor will all appear to be the same color. Even within a single picture, the roughness of the floor shifts, and certain details may become obscured as the illumination shifts. When there are many impediments in the path of a movable robot, it is possible that the robot will lose a lot of information. Under the situation of the artificial light, certain sections of the floor are very shiny. The segmentation results are incorrect because of the heating floor. In the strategy that has been suggested, numerous pictures are not necessary. In the research that is being suggested, the floor patterns are picked at random, and then segmentation is carried out based on the various designs that have been selected. Calibration of the camera is not necessary in the technique that has been suggested for floor segmentation. In addition, border clues and geometric cues are not required to solve the puzzle.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015103 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SWISS LEVER ESCAPEMENT SYSTEM FOR TIME PIECE

(51) International classification :G01N 336800, G04B 150800, G04F 070800, H04N 212368, H04N 214340
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A SWISS LEVER ESCAPEMENT SYSTEM FOR TIME PIECE Aspects of present disclosure relate to a Swiss lever escapement system comprising of an escape wheel (2) having a circular centre (1), and a plurality of teeth (3); a lever (8) having a central axis (4), a pallet arm base (5) and a lever fork (9), wherein the pallet arm base (5) attached to an entry pallet (6) and an exit pallet (7) which engages alternately with the plurality of teeth (3) of the escape wheel (2); and a safety pin (10) to engage with the lever fork (9). The pallet arm base (5) attached to the entry pallet (6) and the exit pallet (7) is positioned at an angle of 45° with respect to the circular centre (1). Advantageously, the present invention provides an efficient and optimum Swiss lever escapement for time piece. The disclosed invention requires lesser amount of energy for displacement and the leverage performance is good. Figure 1 is the reference figure. Figure 1: Diagram of a Swiss lever escapement system for time piece

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015104 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A NOVEL SYSTEM FOR SECURE DATA TRANSMISSION OVER A NETWORK BASED ON CODE GENERATION AND WORKING METHOD THEREOF

(51) International classification :G06F 075800, G06F 169537, G06Q 203800, G09C 010000, H04L 090800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a system for secure data transmission over a network based on code generation and working method thereof. In the present invention, a first means for establishing the authenticity among the entities and ensuring the safety of data transmissions over potentially compromised data communications networks by using a secret code shared between the entities, pseudo-randomly generated data values, and an encryption technique. Further, the entities connected with the computer system sends data to the first mean, which links to the transmission media via a modem or other mechanism using a network interface card, which may include an Ethernet connection, an interface device may additionally interface to a packet switching network, such as the Internet. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : THE EFFECT OF ALTERNATIVE PRE-TREATMENT STRATEGIES ON AEROBIC DIGESTION AND BIOFERTILIZER PRODUCTION THROUGH DIFFERENT ALGAL STRAINS FROM INDUSTRIAL SOLID WASTE FOR SUSTAINABLE AGRICULTURE (PHYCOREMEDIATION)

<p>(51) International classification :C02F 030400, C05F 110800, C05F 175000, C10J 037800, G01N 014400</p> <p>(86) International Application No:PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)K. Sivakumar Address of Applicant :Karpaga Vinayaga College of Engineering and Technology, Padalam -----</p> <p>2)V Karthikeyan 3)Karpaga Vinayaga College of Engineering and Technology 4)P Bharathi 5)K Venugopal 6)M Prabakaran 7)AS Anitha 8)A Anli Dino 9)K Nagalakshmi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)K. Sivakumar Address of Applicant :Karpaga Vinayaga College of Engineering and Technology, Padalam -----</p> <p>2)V Karthikeyan Address of Applicant :No.2, Othaivadai street, Near Balaji theatre, Acharappakkam, chengalpattu-603301 Acharapakkam -----</p> <p>3)Karpaga Vinayaga College of Engineering and Technology Address of Applicant :GST Road, Padalam, Chengalpattu - 603308 Chengalpattu --</p> <p>4)P Bharathi Address of Applicant :N9. 294,NH1, Kulasekara Always street, Maraimalainagar 603209 Chengalpattu District Maraimalainagar -----</p> <p>5)K Venugopal Address of Applicant :10/22, Thirupugal street, Kizhuperumbakkam, Villupuram-605602 Villupuram -----</p> <p>6)M Prabakaran Address of Applicant :Paraimettu street, Nallur village, Irumbedu Post, Madurantakam, chengalpattu-603302 Madhuranthagam -----</p> <p>7)AS Anitha Address of Applicant :No.33,Cheyyur Vandhavasi salai, Saravambakkam,Chithamoor-603313 Chithamoor -----</p> <p>8)A Anli Dino Address of Applicant :No.67, Bhagavathi Nagar 4th Street, Govindharajapuram, Guduvanchery, Chengalpattu - 603202 Guduvancherry -----</p> <p>9)K Nagalakshmi Address of Applicant :22B, Second cross street, Govindharajapuram, Guduvanchery-603202 Guduvancherry -----</p>
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(57) Abstract :

Waste accumulation in the Environment leads to cause problems in ecological balances. There have been many research developments on the sludge process, its modifications and industrial waste treatments. Activated sludge process through microbial digestion is currently being adopted by many industries. Nevertheless, the final disposal of sludge after treatment is a burden for the industries. Till date there is no definite effective microbial degradative technique for the sludge treatment by active process. Therefore, still there exists a scope for research. In industries where soybean is used as raw materials, the discharged effluent and the sludge generated after treatment have high sulphur and unpleasant odour apart from residues of proteins. Hence soybean sludge requires special microbial digestion using *Chlorella vulgaris*, *Rhizoclonium hieroglyphicum*, *Chroococcus turgidus* with microbial consortium and to convert Soya Waste into agro fertilizer.

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015169 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A method and system for educating, connecting and aiding entrepreneurs including budding student entrepreneurs for fulfilling various requirements

(51) International classification :C07K 140050, G06Q 502000, H04L 051400, H04W 280600, H04W 720400

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

A system and method for providing a common platform for especially students with Start-up ambitions with that of common / like-minded business partners with potential is provided. The blockchain technology is used for trackability, visibility and verification of data which adds immense security to the members and their ideas. The in-house algorithms to match compatible Cofounders to Founders and vice versa while building real time contracts to ensure consumer safety and adherence to partnership. The method for creating business networking wherein the said founders and cofounders can then reach out to Mentors, depending on their requirements and the members can only be from the age group of 18 to 24 years old and the mentors need to have more than 10 years of industrial work experience in a particular field and further the method does not wish to merely connect two people, but create a community of budding entrepreneurs.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015181 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A FORMULATION OF BIO BRIQUETTES FROM COIR PITH

(51) International classification :A01G 242500, A61B 050000, A61B 050537, B60K 063870, C10L 053600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A BIO BRIQUETTE FORMULATION USING COIR PITH ABSTRACT The present invention relates to a formulation of bio-briquettes from coir pith, wherein, the formulation consists of: 88 % parts of sterilized charcoal particles (100), by weight 8% parts of binder (101), by weight and 4% parts of accelerant (102), by weight mixed in hot water. The formulation of bio-briquettes from coir pith, as claimed in claim 1, wherein, the process consists of: Sterilisation of raw coconut pith (200), Carbonising by pyrolysis (201), Preparation of coir pith charcoal + binder + accelerant in a ratio of 22:2:1 (202), Densification using dies (203). The bio-briquettes formulation consists of a moisture value of 3.95% and shows a calorific value of 21640KJ/Kg. The formulation utilises coir pith into a cost effective, truly environment friendly and sustainable bio-fuel briquette with low moisture and sulphur content and high calorific value and high carbon content.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : Stateless Digital Currency System

(51) International classification :G06Q 200600, G06Q 203600, G06Q 203800, G06Q 204000, H04L 615092

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

In this invention, we disclose a Stateless Digital Currency System where none of the components store any state. The system comprises a Digital Currency Exchange Station and Purchase Stations. The Digital Currency Exchange station facilitates the exchange of physical currency for digital currency and vice-versa. The Digital Currency is dispersed using Punched Cards as the medium. The Punched Cards are then utilized at Purchase Stations. At Purchase Stations the customer hand over their Punched Cards that carry the digital currency and get back new Punch Cards with the updated valuation that factors payment to support the purchase. The same transaction generates a counter-party punched card that is encoded with the amount received for the goods/services purchased at the purchase station. The purchasers can engage in a sequence of transactions in a plurality of purchase stations, following which they can redeem the left-over balance at the Digital Currency Exchange Station by handing over the punched card. The Purchase Stations can also do likewise. Each Punched Card has a mechanism to clearly indicate the amount available on the card and a security mechanism encoded on the same card. The subsystems used in this system are pre-programmed to authenticate the media that circulates the digital currency. Neither Digital Currency Systems nor Purchase Stations store any state and have no requirement to communicate with each other.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015213 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A UNIQUE MACHINE LEARNING BASED BIOMEDICAL IMAGE ANALYSIS DEVICE FOR ACCURATE DETECTION OF DISEASE

(51) International classification :G06K 096200, G06N 030800, G06N 200000, G06T 070000, G16H 502000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention discloses a machine learning based Biomedical image analysis device for disease detection and working method thereof. In the present invention, a means of transmitting the acquired biological image through an image capturing module and the corresponding learning model; a processing unit with a machine learning module to create a standardised format for the annotation of the acquired medical images using the set of image spots in the acquired biological image data, which isolate many clusters of pixels and creating a network that represents the various groups of pixels with the labelled form of the acquired medical images, identify at least one biomedical feature for a graph node. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : An Evolution over Internet of Things (IoT) Enabled Real Time Weather Forecasting System using Arduino.

(51) International classification :F24F 405000, G01W 010200, G01W 011000, G09B 231800, G16Y 403500

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In general, smart systems are enhancing quite recognizable in certain real time resources. Accordingly, the individual systems are arranged in remarkably efficient in everyday lives properly. On the other side, the massive advancement of Internet of Things (IoT) technique has predominately an emerging source also widely used in many real time applications such as educational sector, healthcare, disaster monitoring industries and other relevant functions. Among these, smart weather forecasting system is an essential need of the current monitoring system. Recently, Weather stations are being used by researchers all over the world to monitor, record, and evaluate weather patterns in order to investigate climate changes and forecast the environment. In addition to this, the proposed research work composed of sensor nodes like temperature, humidity and pressure. Further, low-cost reliable microcontroller Arduino UNO makes it available for wide range of users and all are interconnected which in turn to regulate and stored in web server. As a result, individuals will get an easier, more trustworthy, and faster method of monitoring the weather and other environmental characteristics.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : VARIABLE TORQUE MAP

(51) International classification :B60K 230800, E05D 110800, F16H 482000, F16H 483000, F16H 483400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
VARIABLE TORQUE MAP Approaches for modifying of the torque limit of an electric vehicle are described. In an example, the vehicle may include a motor control unit. The motor control unit may be further coupled to an electric motor of the vehicle under consideration. In the current example, the motor control unit is configured monitor the temperature of a component of the electric vehicle. The components of the electric vehicle can be one of a MCU, a motor, a battery temperature, and more which cause to modify a torque limit of the electric vehicle across vehicle speed ranges, and wherein the components of the electric vehicle generate a control signal to cause the change in value of the peak torque under the prescribed threshold. Upon determining the monitored temperature to be greater than a prescribed threshold, further cause to modify a torque limit of the electric vehicle across vehicle speed ranges, wherein the modifying of the torque limit of the electric vehicle limits current drawn by the powertrain of the vehicle.

No. of Pages : 22 No. of Claims : 14

(54) Title of the invention : HYBRID DEEP LEARNING BASED METHOD AND SYSTEM FOR AQUACULTURE WATER QUALITY PREDICTION

(51) International classification :A01K 630400, C02F 032000, G05B 194180, G06N 030400, G06N 030800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a hybrid deep learning method and system for predicting water quality in aquaculture. The system is designed to analyse data from various sensors and instruments in real-time and uses this data to make predictions about the water quality in aquaculture. The proposed system combines Convolutional Neural Networks (CNN) and Long Short-Term Memory Networks (LSTM) or Gated Recurrent Units (GRU) to accurately predict the water quality. The proposed system is composed of two phases, including feature extraction and prediction. In the feature extraction phase, CNN is used to extract the spatio-temporal features of water quality. In the prediction phase, LSTM or GRU is used to learn the temporal patterns of water quality. The goal of the system is to improve the efficiency and effectiveness of aquaculture operations by providing early warning of potential water quality issues, enabling timely corrective action to be taken. The system is intended to be user-friendly and can be easily integrated into existing aquaculture management systems. The proposed system is tested on a real-world aquaculture dataset, and the results show that the proposed system outperforms other existing methods in terms of prediction accuracy. Reference Figure: Fig.2 and Fig. 3

No. of Pages : 33 No. of Claims : 10

(54) Title of the invention : A Design & Development of Online Voting System

(51) International classification :C11B 090000, G06F 112600, G06Q 300200, G06Q 300600, G07C 130000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT OF THE INVENTION A Design & Development of Online Voting System Our paper deals with online voting system that facilitates user (voter), candidate and administrator (who will be in charge and will verify all the user and information) to participate in online voting. Our online voting system is highly secured, and it has a simple and interactive user interface. The proposed online portal is secured and have unique security feature such as unique id generation that adds another layer of security (except login id and password) and gives admin the ability to verify the user information and to decide whether he is eligible to vote or not. It also creates and manages voting and an election detail as all the users must login by user name and password and click on candidates to register vote.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015296 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development of House Price Prediction

(51) International classification :C11B 090000, G06Q 100400, G06Q 300200, G06Q 300600, G06Q 501600
(86) International Application No :PCT///
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :

ABSTRACT A Design & Development of House Price Prediction House price forecasting is an important topic of real estate. The literature attempts to derive useful knowledge from historical data of property markets. Machine learning techniques are applied to analyze historical property transactions in India to discover useful models for house buyers and sellers. Revealed is the high discrepancy between house prices in the most expensive and most affordable suburbs in the city of Mumbai. The accuracy of the prediction is evaluated by checking the root square and root mean square error scores of the training model. The test is performed after applying the required pre-processing methods and splitting the data into two parts. However, one part will be used in the training and the other in the test phase. We have also presented a binning strategy that improved the accuracy of the models

No. of Pages : 4 No. of Claims : 3

(54) Title of the invention : A Design & Development Of Event Management System

(51) International classification :C11B 090000, G06F 030486, G06F 083800, G06F 112600, G06Q 300600

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A Design & Development Of Event Management System The Event Management system project will work and update the event's records, participant's records, all expenditures during an event, staff and employee's record. Here explaining about wedding management database system. The main objective of the project on online wedding planner is to manage the details of Wedding, Party Decoration, Wedding. The purpose of the project is to Build an application program to reduce the manual work for managing the Wedding, Venue, Party, Booking. It tracks all the details about the Booking, Customer, Decoration. It provides the searching facilities based on various factors such as Wedding, Customer, Decoration. It manages the information of venue and shows the information and description of the Wedding, Booking. User can search the details of the Venue, Booking, Payment. Admin can edit, add, delete and update the records of Planner, Blog, Payment. This software package has been developed using HTML, CSS, PHP and JavaScript at Front End and Django at Back End with Microsoft SQL Server database. This version of the software has a multi-user approach. For further enhancement or development of the package, user's feedback will be considered.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015298 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development of News Feed Application

(51) International classification :C11B 090000, G06F 112600, G06F 169510, G06F 169535, G06F 169580
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT OF THE INVENTION: A Design & Development of News Feed Application This paper aims to develop an online News Feed Application and posts from social network platforms such as Twitter and Reddit. The developed application uses Retrofit Library for fetching the news from the Server and Picasso Library for downloading the images because JSON is also known as (JavaScript Object Notation) is a format to exchange data from the server. The data stored in JSON format is lightweight and easy to handle. With the help of JSON, we can access the data in the form of JsonArray, JsonObject and JsonString. Finally, we also incorporate the data from the News API, a system which merges the content of many popular news websites.

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : A Design & Development Of Online Table Reservation With Pre-Food Ordering

(51) International classification :C11B 090000, G06F 112600, G06Q 100200, G06Q 300600, G06Q 501200
 (86) International Application No :PCT// /
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
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(57) Abstract :

ABSTRACT A Design & Development Of Online Table Reservation With Pre-Food Ordering Online Table Reservation System is a web-based solution for a Restaurant's Pre-Ordering module; automation and digitalization of table reservation process along with pre-ordering of food. This system would allow restaurants to increase the scope of business and save a lot of time with table reservations as previous bookings are open. The system also makes it possible to quickly and easily control an online menu that customers can search and use with only a few clicks to place orders. Recommendations would be based on user activation and specifications. A new user would be recommended of the restaurants available best sellers while a regular would be recommended based on their previous food selections. Their starter and other food selections would also raise recommendations. The table will be reserved on the appropriate time-slot so that users do not face inconvenience. Using this system as a building block, we can develop a smart phone/PC-compatible software-application.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015300 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development Of Driver's Drowsiness Detection System Using Machine Learning Model.

(51) International classification :B60K 280600, C11B 090000, G06N 030800, G06N 200000, G08B 210600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT OF THE INVENTION A Design & Development Of Driver's Drowsiness Detection System Using Machine Learning Model. Our paper deals with online voting system that facilitates user(voter), candidate and administrator (who will be in charge and will verify all the user and information) to participate in online voting. our online voting system is highly secured, and it has a simple and interactive user interface. The proposed online portal is secured and have unique security feature such as unique id generation that adds another layer of security (except login id and password) and gives admin the ability to verify the user information and to decide whether he is eligible to vote or not. It also creates and manages voting and an election detail as all the users must login by user name and password and click on candidates to register vote.

No. of Pages : 4 No. of Claims : 2

(54) Title of the invention : Design & Development of Baby care system

(51) International classification :A01N 010200, A61B 050000, C11B 090000, G06F 112600, G06Q 300600
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

ABSTRACT OF THE INVENTION A Design & Development of Baby care System One of the major problems in developing countries is the maintenance of roads. Well-maintained roads contribute a major portion to the country's economy. Due to the peak usage of road transport, there are many possibilities of potholes on roads which lead to accidents. Infrastructure when it adopts advance technologies, it enlightens the way of living, in this context, we designed a vision for better roads. Though India is developing at full pace, the graph of road accidents per year due to bad road conditions has a very positive slope from the past two decades. The number of accidents due to potholes increased in the past few years, integrating advanced technologies to the current road's infrastructure helps us to cut the number of accidents. Artificial Intelligent, Internet of Things, Machine Learning, Deep Learning, Cloud computing technologies help to design an accident prevention system further improves the safety and security of citizens. Hence, we think information sharing plays an important role in avoiding the effects of potholes and reducing accidents. This system will help in the maintenance of the roads. To achieve our goal, we are using an object detection API that helps in detecting the potholes. This collected data can be used by the motorist to avoid accidents. The project conducts a study into the use of the internet of things to detect and report potholes on roads. The paper assembles an open hardware equipment and sensor to experiment the detection and reporting of potholes using GPS Tracker devices. The project presented the architectural design and system to detect, report and manage potholes and other road obstacles using GPS tracker. The main components of the project are the Accelerometer, GPS and the Android smartphone. This project would be given to government road contractors to rectify the potholes and avoid accidents and help in traffic analysis. Also, our aim is to make safety systems affordable to every vehicle in the country

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015302 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development Of Educational Kid's Game

(51) International classification :C11B 090000, G06F 112600, G06Q 300600, G06Q 502000, G09B 233000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT A Design & Development Of Educational Kid's Game Educational kid's games are games explicitly designed with educational purposes, or which have incidental or secondary educational value. All types of games may be used in an educational environment, however educational games are games that are designed to help people learn about certain subjects, expand concepts, reinforce development, understand a historical event or culture, or assist them in learning a skill as they play. Game types include board, card, and video games. Our game helps kids to identify between eatable and non-eatable object. The game is based on computer vision technology using python.

No. of Pages : 6 No. of Claims : 2

(54) Title of the invention : A Design & Development Of Boston House Price Detection

(51) International classification :C07K 162800, C11B 090000, G06Q 300600, H04L 673060, H04L 675680

(86) International Application No :PCT// /
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT A Design & Development Of Boston House Price Detection Everyone wishes to buy and live in a house which suits their lifestyle and which provides amenities according to their needs. There are many factors that are to be taken into consideration like area, location, view etc. for prediction of house price. It is very difficult to predict house price as it is constantly changing and quite often the prices are exaggerated for which people who want to buy houses, and various real estate agencies who want to invest in properties, find it difficult to buy or sell houses. For this reason, in this project we create an advanced automated Machine Learning model using Simple Linear Regression ,XG Boost , Random Forest and Support Vector Machines using the Boston house dataset to predict house price in future accurately, and to measure the accuracy of these models various measuring metrics like R-Squared, Root Mean Square Error (RMSE) and Cross-Validation are used. This paper also studies the correlation of various attributes of the Boston dataset using the heat map to see which attributes actually impact the prediction of the models. It removes the outliers which are present in the dataset to achieve good accuracy. In this project we observed that XG Boost performs better in all the measuring matrices whereas Support Vector Machines performs poor in all of the measuring matrices

No. of Pages : 5 No. of Claims : 2

(54) Title of the invention : A Design & Development of Smart Attendance Management System

<p>(51) International classification :C11B 090000, G06Q 100600, G06Q 101000, G06Q 502000, G07C 011000</p> <p>(86) International Application No :PCT/// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)CMR University Address of Applicant :#2, 3rd C Cross, 6th”A” Main 2nd Block, HRBR Layout Kalyan Nagar Bangalore 560043 Karnataka, India -----</p> <p>2)Dr. S Saravanakumar</p> <p>3)Dr. Shteesh T Y</p> <p>4)Dr. Rubini P</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Akshat Tripathi Address of Applicant :#2, 3rd C Cross, 6th”A” Main 2nd Block, HRBR Layout Kalyan Nagar Bangalore 560043 Karnataka, India - -----</p> <p>2)Harshal Sharma Address of Applicant :#2, 3rd C Cross, 6th”A” Main 2nd Block, HRBR Layout Kalyan Nagar Bangalore 560043 Karnataka, India - -----</p> <p>3)Ishank Deep Address of Applicant :#2, 3rd C Cross, 6th”A” Main 2nd Block, HRBR Layout Kalyan Nagar Bangalore 560043 Karnataka, India - -----</p>
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(57) Abstract :

ABSTRACT A Design & Development of Smart Attendance Management System To maintain a discipline and let students grasp utmost knowledge in schools, colleges and universities the attendance system was introduced. There are two conventional techniques to mark attendance of students in a particular class. One of them is by calling the roll number and the second is to take students sign on a piece of paper against their roll number. Hence there was a need to evolve this system in such a way that it could become user friendly, less time consuming and efficient. This is an automated system to assist the faculty in taking attendance of the whole class without any disturbance or time waste. The idea can encompass a large number application one of which include face identification, it will help save time and efficiently identifies and eliminates the chances of proxy attendance. The following system is based on face recognition to maintain the attendance record of students. The daily attendance of students is recorded subject wise which is stored already by the administrator. As the time for corresponding subject arrives the system automatically starts taking snaps and then apply face detection and recognition technique to the given image and the recognize students are marked as present and their attendance update with corresponding time and subject id. We have used deep learning techniques to develop this system, histogram of oriented gradient method is used to detect faces in images and deep learning method is used to compute and compare feature facial of students to recognize them. Our system is capable to identify multiple faces in real time.

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : A Design & Development Of Medicine Reminder Application

(51) International classification :A61J 070400, C11B 090000, G06F 112600, G06Q 300600, G16H 201000
 (86) International Application No :PCT///
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT A Design & Development Of Medicine Reminder Application Medication has become very important in each and everyone's life because most people are under regular medication these days for different reasons like, some having long-term diseases where as some with short-term diseases. Many users are busy in their lives and even forget many important things in their daily life like taking medicines. This application helps users to take medicines regularly and maintain their health. This application is also useful for senior citizens not to forget their medicine on time so that their health will be safer with lesser risk. This is an Android-based application in which an automatic alarm ringing system is implemented. Patients need not remember their medicine dosage timings as they can set an alarm on their dosage timings. The alarm can be set for multiple medicines and timings including date, time, and medicine description. A notification will be sent to them inside the system preferably chosen by the patients. Medical Reminder Systems have been developed where new hardware is required but, in our work, we have made an attempt to develop a system that is economical, time-saving, and supports medication adherence.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : A Hybrid Brake Caliper for Vehicles and Method of Operating the Same

(51) International classification :C22C 210000, C22F 010400, F16D 550000, F16D 650000, H02J 070000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: A Hybrid Brake Caliper for Vehicles and Method of Operating the Same The present disclosure proposes a caliper (100) that assists a user during the failure of hydraulic braking. The hybrid brake caliper (100) comprises a housing (102), a mounting clip (104), a primary braking unit (109), a secondary braking unit (111), a sensing unit (116) and a controller (120). The housing 102 is configured to engage around a brake disc of a vehicle. The proposed caliper (100) assists a user during the failure of hydraulic braking. The proposed caliper (100) automatically actuates a secondary braking system during the failure of a primary braking system. The proposed cost-effective caliper (100) that eliminates multiple calipers for two different braking systems which minimize the number of components required. The proposed caliper (100) assists a user by reducing the inconvenience during the failure of the braking system.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015318 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An Automatic Clubfoot Abduction Brace and Method of Operating the Same

(51) International classification :A43B 070000, A61F 050100, A61F 053700, G05B 230200, G11C 160400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: An Automatic Clubfoot Abduction Brace and Method of Operating the Same The present disclosure proposes an automatic clubfoot abduction brace (100). The automatic clubfoot abduction brace (100) comprises a pair of hollow bars (102a) that are configured to form a crossbar of the clubfoot abduction brace (100). A pair of shoe platforms (108) is fixed at a specific angle to the hollow bars (102a) to provide dorsiflexion angle. At least two extendable units are fixed into the distal ends of the connected hollow bars (102a). The automatic clubfoot abduction brace (100) prescribed for the treatment of clubfoot can automatically adjust the brace length based on children age. The automatic clubfoot abduction brace (100) can be prescribed for the treatment of clubfoot and forefoot adduction in children.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : An Electric Wood Smoothing Tool with a Self-Sharpening Mechanism and Method Thereof

(51) International classification :A61B 178600, A61M 250900, B24D 033400, B24D 180000, E21B 100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: An Electric Wood Smoothing Tool with a Self-Sharpening Mechanism and Method Thereof The present disclosure proposes an electric wood smoothing tool (100) with an inbuilt sharpening mechanism to self-sharpen its blades easily without any effort. The electric wood smoothing tool (100) comprises a housing (102), a smoothing roller (104), a grinding roller (106), and a gear unit (108). The smoothing roller (104) is configured with one or more smoothing blades (120) that are exposed outside the housing (102) to smoothen a wood surface (10). The electric wood smoothing tool (100) can self-sharpen its planar blades without the need for a skilled person, thereby eliminating traditional methods of sharpening the blades. The proposed electric tool (100) is provided with a gear mechanism to perform the smoothing and sharpening operations when required.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015320 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An Automatic Blind Spot Monitoring and Guiding System for Vehicles and Method Thereof

(51) International classification :B60Q 090000, B60W 501400, C22F 010400, G01S 179310, H02J 070000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT: Title: An Automatic Blind Spot Monitoring and Guiding System for Vehicles and Method Thereof The present invention discloses an automatic blind spot monitoring and guiding system (100) for vehicles which detects the approach of secondary vehicles into the blind spot of the user's vehicle and also detects the user's vehicle in secondary vehicle's blind spot thereby terminating collisions and accidents. The automatic blind spot monitoring and guiding system (100) comprises a primary blind spot detection unit (102) positioned in headlights (13, 14) for detecting whether the vehicle (10) is in a blind spot of a secondary vehicle (12), a secondary blind spot detection unit (122) positioned in side mirror assembly (15, 16) for detecting whether the secondary vehicle (12) is entering into the blind spot of the user's vehicle (10).

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015332 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : MAGNETIC LOCKING IN ELECTRIC CHARGING SYSTEMS

(51) International classification :B60L 531600, H01M 502000, H01R 339700, H02J 070000, H02J 071400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT MAGNETIC LOCKING IN ELECTRIC CHARGING SYSTEMS The embodiments herein provide a system for magnetic locking during electric charging of one or more electric charge storing units 108. The system comprises a first unit 104 and a second unit 106. The first unit 104 may be connected to a power source 102. The first unit includes at least one of a metallic element, a magnet and an electromagnetic coil. The second unit 106 may be operatively connected to the first unit 104 for allowing a flow of electric charge to one or more electric charge storing units 108. The second unit 106 includes an electromagnetic coil. The second unit 106 may be adapted to magnetically attach to the first unit 104 with a predefined force during the electric charging of the one or more electric charge storing units 108. FIG.1

No. of Pages : 48 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015354 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A REWARD-BASED SYSTEM AND APPARATUS FOR EV CHARGING USING BLOCKCHAIN TECHNOLOGY

(51) International classification :G06Q 204000, H02J 070000, H04B 050000, H04L 093200, H04L 671040
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

A system and apparatus for incentivizing electric vehicle (EV) users to charge their EVs during off-peak hours using blockchain technology. The system rewards EV users with cryptocurrency for charging their EVs during off-peak hours, while charging stations record the charging activities and energy providers set the energy prices and reward rates. The blockchain network verifies the charging activities, sets the reward rates, and distributes the rewards automatically to the users' digital wallets. The system provides a transparent and secure system for the reward distribution process using blockchain technology and encourages the adoption of EVs and the development of charging infrastructure.

No. of Pages : 16 No. of Claims : 15

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED AUTOMATIC PREDICTION AND PREVENTION OF GASTRIC CANCER AND LUNG CANCER USING IMAGE PROCESSING AND DEEP LEARNING ALGORITHMS

<p>(51) International classification :G06K 096200, G06N 030400, G06N 030800, G06N 050400, G06N 200000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)J. Vaishnavi Address of Applicant :Assistant Professor, Department of Computer Science, SRM Institute of Science & Technology, SRM Nagar, Chennai-Trichy Highway, Irungalur, Tamilnadu – 621105, India -----</p> <p>2)Mrs. N. Gayathri</p> <p>3)Annammadevi G. S</p> <p>4)B. IswariyaLakshmi</p> <p>5)Dr Mahesh Purushottam Nagarkar</p> <p>6)Dr Ravindra Rambhau Navthar</p> <p>7)Ashima Mahendra</p> <p>8)Dr. Saroj Kumar Nanda</p> <p>9)A. Vijayaprabhu</p> <p>10)Dr M Kathirvelu</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)J. Vaishnavi Address of Applicant :Assistant Professor, Department of Computer Science, SRM Institute of Science & Technology, SRM Nagar, Chennai-Trichy Highway, Irungalur, Tamilnadu – 621105, India -----</p> <p>2)Mrs. N. Gayathri Address of Applicant :Assistant Professor, Department of Computer Science, SRM Institute of Science & Technology, SRM Nagar, Chennai-Trichy Highway, Irungalur, Tamilnadu – 621105, India -----</p> <p>3)Annammadevi G. S Address of Applicant :Assistant Professor, Pharmaceutical Technology, GITAM School of Pharmacy, GITAM, Rushikonda, Visakhapatnam, Andhra Pradesh, India -----</p> <p>4)B. IswariyaLakshmi Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Selvam college of Technology/ Anna University, Selvam College of Technology, Salem Road (NH 44), Pappinaickenpatti (Post), Namakkal -637 003, Tamilnadu, India. -----</p> <p>5)Dr Mahesh Purushottam Nagarkar Address of Applicant :Associate Professor, Department of Mechanical Engineering, Rajiv Gandhi College of Engineering, Nagar- Kalyan Road, Vitthal Nagar, Kokate Vasti, Karjule Harya (Takli Dhokeshwar), Tal- Parenr, Ahmednagar, Maharashtra, India -----</p> <p>6)Dr Ravindra Rambhau Navthar Address of Applicant :Professor, Department of Mechanical Engineering, Dr Vithalrao Vikhe Patil College of Engineering, MIDC, Ahmednagar, Maharashtra, India -----</p> <p>7)Ashima Mahendra Address of Applicant :Assistant Professor, Department of AI&DS, Ajeenkya DY Patil School of Engineering / SPPU, ADYPSOE, Lohegaon, Pune, Maharashtra, India -----</p> <p>8)Dr. Saroj Kumar Nanda Address of Applicant :Associate Professor, School of Computer Engineering, Ajeenkya DY Patil University, Charoli, Lohengaon, Pune, Maharashtra, India 412105 -----</p> <p>9)A. Vijayaprabhu Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Siddharth institute of Engineering and Technology, Puttur, Chittoor, Andhra Pradesh, India -----</p> <p>10)Dr M Kathirvelu Address of Applicant :Professor, Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology, Arasur, Coimbatore, Tamilnadu, India -----</p>
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(57) Abstract :
 ARTIFICIAL INTELLIGENCE BASED AUTOMATIC PREDICTION AND PREVENTION OF GASTRIC CANCER AND LUNG CANCER USING IMAGE PROCESSING AND DEEP LEARNING ALGORITHMS
 Abstract: In the past decade, AI has contributed to the creation of innovative medical therapies and the enhancement of current ones. According to accumulating evidence, AI could be employed for cancer research and treatment. Stomach cancer, also known as stomach cancer, is an outstanding example of a condition that could serve as a test case for the first medical uses of artificial intelligence. Machine learning and deep learning are two artificial intelligence (AI)-based concepts. Machine learning is the capability to automatically learn data properties without being specifically programmed to do so (ML). It is a discipline of computer science and data science concerned with optimising the performance of computational methods. In cancer research, predictive prognostic models based on machine learning are becoming increasingly prominent. Deep learning (DL) is an area of "machine learning" (ML) that focuses on the study of multilayered computing processes. ML demands additional information about the characteristics of the data, whereas DL does not. Hence, DL algorithms are significantly more challenging to define than ML methods, and it may be impossible to do so. This essay examined the application of artificial intelligence to identify, treat, and predict stomach cancer. Convolutional neural networks (CNNs) and artificial neural networks (ANNs) were lauded for their unique contributions to their respective fields. With stomach cancer, there is still a great deal of work to be done in the clinic. Using AI to improve the diagnosis of stomach cancer is a good idea, despite the fact that similar endeavours are becoming more popular. The discoveries could have significant future implications for how we combat stomach cancer. The use of visual modalities may improve diagnostic capabilities, and integration, although time-consuming and laborious, may expand treatment options. It could be a useful tool for physicians and other health-care professionals. Not only do AI improvements in identifying and treating diseases assist patients, but they also transform our view of the future of medicine.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015362 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : WIDEBAND DUAL POLARIZED ANTENNA ARRAY FOR 5G MASSIVE SYSTEMS

(51) International classification :H01Q 012400, H01Q 210600, H01Q 212400, H04B 070400, H04B 070456
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT The most promising technique to improve for future wireless networks is massive MIMO. Via "Spatial Multiplexing," the Massive MIMO base stations' enormous antenna arrays were able to simultaneously serve many consumers at once. This concept presents a small, dual-polarized antenna with four radiating square patches. The planned antenna is built to operate at 3.6 GHz (Sub-6 GHz 5G band). Due to the increased array gain, this dual polarisation antenna is advantageous for small cell base station and portable wireless handset applications with fixed physical size. It is attained by packing twice as many antennas per element. Its architecture contributes to meeting the channel capacity and area throughput requirements for 5G networks.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015376 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Isolation of 2-(1,3-diphenyl-1H-pyrazol-5-yl) acetic acid from Nigella sativa extract for Soluble Epoxide Hydrolases (sEH) Inhibition

(51) International classification :A61K 367100, A61P 031000, A61P 091200, A61P 110000, A61P 110600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a novel chemical compound 2-(1,3-diphenyl-1H-pyrazol-5-yl) acetic acid isolated from Nigella sativa methanolic extract. The extract and the novel chemical compound 2-(1,3-diphenyl-1H-pyrazol-5-yl) acetic acid exhibit Soluble Epoxide Hydrolases (sEH) Inhibition activity which make the extract and novel compound a potential candidate for various therapeutic applications.

No. of Pages : 28 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015389 A

(19) INDIA

(22) Date of filing of Application :07/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SYSTEM FOR TALENT ACQUISITION ANALYTICS FOR SMART SOURCING AND HIRING USING DATA AND METHOD THEREOF

(51) International classification :G06Q 100600, G06Q 101000, G11C 150400, H04M 170200, H04N 214780
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a system for talent acquisition analytics for smart sourcing and hiring using data and method thereof. In the present invention, a process of selecting one or more potential candidates for pre-selection interviews by a talent management computing device from a pool of candidate e-dossiers stored in a quality talent acquisition database, wherein the pool of candidate e-dossiers contains job information associated with a pool of candidates. Further, a means having the device used for talent management collect data on dishonest tactics employed during the selection process, and then adding that data to a database for acquiring top-notch employees, is an important step in ensuring a high-quality hiring process. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015390 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Investigations on the growth, optical, thermal, laser damage threshold and dielectric studies of 4-aminopyridinium 4-nitrophenolate 4-nitrophenol single crystal: A favourable Second order organic nonlinear optical material

(51) International classification :A01N 332200, G01N 218800, G02F 013500, G02F 013550, G02F 013610
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

4-aminopyridinium 4-nitrophenolate 4-nitrophenol (4AP4NP) crystals were grown by the slow evaporation method. The unit cell parameters were determined by a single crystal X-ray diffraction analysis. UV-vis-NIR spectral studies showed that the lower cut-off wavelength is found to be 472 nm. The single and multiple shot laser damage threshold of 4AP4NP crystal are found to be 3.67 and 3.4 GW cm⁻², respectively. TG-DT analyses revealed that 4AP4NP could be used for any applications below 175 °C. The specific heat capacity (C_p) of 4AP4NP was determined by TG-DSC studies. Dielectric tensor analyses revealed that 4AP4NP exhibits normal dielectric behaviour. The relative SHG efficiency of 4AP4NP is found to be 1.1 times that of KDP.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015391 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IMPROVING THE QUALITIES OF GEOPOLYMER CONCRETE USING NANOMATERIALS AND STEEL FIBERS

(51) International classification :C04B 144800, C04B 180800, C04B 200000, C04B 280000, G01N 333800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Improving the Qualities of Geopolymer Concrete using Nanomaterials and Steel Fibers ABSTRACT Novel cementitious materials called geopolymers have the potential to totally replace traditional Portland cement composites. Compared to the manufacture of Portland cement, the production of geopolymer composites has a smaller carbon footprint and utilises less energy. To improve the characteristics and performance of geopolymer composites, recent attempts have been undertaken to integrate several kinds of nanoparticles (NPs). One of the most active research fields is nanotechnology, which has gained prominence over the last two decades in particular because to its innovative science and useful applications. Many research have been conducted so far to better understand how adding NPs to geopolymer composites affects their fresh, physical, mechanical, durability, and microstructure characteristics. The simultaneous effects of two distinct steel fibre kinds, nanometakaolin and nanosilica, on the mechanical characteristics of geopolymer concrete (GPC) mixtures are examined in this study. Several geopolymer concrete mixtures were created to accomplish this goal. Initially, ground granulated blast furnace slag (GGBFS) with and without nanomaterials (nanosilica and nanometakaolin) of 0, 2%, 4%, 6%, and 8% were utilised. Second, steel fibre with hooks and crimps (0, 0.5%, 1, and 1.5%) was used. Finally, the best values of steel fibre were combined with the best values of nanomaterials.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : Deep Learning Neural Classification for Structure-Property Modelling with Engineering Alloys

(51) International classification :G06N 030400, G06N 030630, G06N 030800, G16C 203000, G16C 207000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Integrated Computational Materials Engineering (ICME) is the method used for performing material discovery and design. Computational techniques presented a new deep learning classification method to screen the candidate material designs. The materials are adapted. In ICME process–structure–property workflows, ambiguity was ubiquitous. A Piecewise Regressive Tversky Similarity based Deep Learning Neural Classification (PRTS-DLNC) Method is introduced for minimizing as well as transmit uncertainties for robust uncertainties. PRTS-DLNC Method has number of compound data are considered as input. An input compound information were given to hidden layer 1. In that layer, piecewise regression is employed for performing the compound data analysis with structure–property linkages. After that, the regression coefficient value is sent to the hidden layer 2. In that layer, tversky similarity function is used to identify the similarity between the regression coefficient value of training compound data and threshold value. Tversky similarity value varies from 0 to 1 and the results are transmitted to the output layer. By this way, PRTS-DLNC Method improves the performance of structure–property linkages. The computational cost of proposed PRTS-DLNC Method is higher than conventional uncertainty quantification.

No. of Pages : 4 No. of Claims : 4

(54) Title of the invention : A Design & Development of "Road Safety App"

(51) International classification :C11B 090000, E01F 150400, G06F 112600, G06Q 300600, G08G 011600

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT OF THE INVENTION A Design & Development of "Road Safety App" One of the major problems in developing countries is the maintenance of roads. Well-maintained roads contribute a major portion to the country's economy. Due to the peak usage of road transport, there are many possibilities of potholes on roads which lead to accidents. Infrastructure when it adopts advance technologies, it enlightens the way of living, in this context, we designed a vision for better roads. Though India is developing at full pace, the graph of road accidents per year due to bad road conditions has a very positive slope from the past two decades. The number of accidents due to potholes increased in the past few years, integrating advanced technologies to the current road's infrastructure helps us to cut the number of accidents. Artificial Intelligent, Internet of Things, Machine Learning, Deep Learning, Cloud computing technologies help to design an accident prevention system further improves the safety and security of citizens. Hence, we think information sharing plays an important role in avoiding the effects of potholes and reducing accidents. This system will help in the maintenance of the roads. To achieve our goal, we are using an object detection API that helps in detecting the potholes. This collected data can be used by the motorist to avoid accidents. The project conducts a study into the use of the internet of things to detect and report potholes on roads. The paper assembles an open hardware equipment and sensor to experiment the detection and reporting of potholes using GPS Tracker devices. The project presented the architectural design and system to detect, report and manage potholes and other road obstacles using GPS tracker. The main components of the project are the Accelerometer, GPS and the Android smartphone. This project would be given to government road contractors to rectify the potholes and avoid accidents and help in traffic analysis. Also, our aim is to make safety systems affordable to every vehicle in the country.

No. of Pages : 5 No. of Claims : 2

(54) Title of the invention : Campus Placement Management System

(51) International classification :G06F 303920, G06Q 502000, H04L 124600, H04M 035100, H04W 162000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT Campus Placement Management System From a student's perspective, placements can bring a wide range of benefits and opportunities. Training and management of placement is a crucial part of an educational institution in which most of the work is done manually. Manual system in the colleges requires a lot of manpower and time. With this project we aim to develop a web portal to solve this issue. The project is aimed at developing an application for the placement department of the college. The system is an application which will be accessed and effectively used throughout the organization with proper login enabled. It can also be used as an application for the Placement Officers in the college to manage the student information about placement thus reducing the manual work and consumes less paperwork. The system also provides the facility of viewing the personal and academic information of the student. The system gets the requested list of candidates for the companies who would like to recruit the people according to their eligibility criteria.

No. of Pages : 4 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015401 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development Of E-Commerce Website

(51) International classification :C11B 090000, G06F 112600, G06Q 300200, G06Q 300600, G06Q 300800
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A Design & Development Of E-Commerce Website In Today's world, every retail shop owner faces the problem of constant fall of customers, reason being the digital platforms taking over the business world. In order to survive the entrepreneur competition going on, the local shop owners now have to take their business strategies to a new level, by including the digitalization and e-marketing for their business. They need to provide the clients/customers door-step service, where they can provide the customer the most reliable and an easy service. We have taken over this project of developing a website for an e commerce purpose.

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : A Design & Development Of Live scanning& Detection Of Green grocery

(51) International classification :B62B 031400, C11B 090000, F27D 031000, G06Q 300600, H04N 093100

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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ABSTRACT OF THE INVENTION: A Design & Development Of Live scanning& Detection Of Green grocery In today's technological era it is necessary to have a good greengroceries for good health of human being, and it is possible by identifying the fruits and vegetables according to size, shape, colour and also can say fruit and vegetables are edible. To overcome this it is necessary to have an automatic identification of greengrocery. It is indispensable to have non-destructive automatic detection technology in order to improving fruits and vegetables accuracy of detection and Identification, the system should have efficiency and reduce labor requirement. Greengrocery non-destructive detection is the process of detecting fruits and vegetables by each side without damaging the fruit and vegetable by using some detecting technology to make evaluation according some standard algorithms. Today it is somewhat difficult to detect fruit shape, size, colour because of poor process, but it is now easy to detect exact fruit and vegetable by using deep learning detecting technology. At present, most existing fruit detecting and grading system have the disadvantage of low efficiency, low speed, high cost and complexity with usage. So it is significant to develop high speed and less expensive identifying and quick information providing application. In this research work we are going to review some technologies used identifying of greengrocery so as to conclude the best suitable techniques for implement which fulfils all the necessary requirements

No. of Pages : 6 No. of Claims : 2

(54) Title of the invention : A DESIGN & DEVELOPMENT CANTEEN MANAGEMENT SYSTEM

(51) International classification :C11B 090000, G06F 112600, G06Q 100600, G06Q 300200, G06Q 501200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT A Design And Development Of Canteen Management System An automated canteen ordering system is developed where the customers can make an order for the food and avoid the hassles of waiting for the order to be taken by the waiter. Using the application, the end users register online, read the e-menu card, and select the food from the e-menu card to order food online. Once the customer selects the required food item the chef will be able to see the results on the screen and start processing the order. This application nullifies the need of a waiter or reduces the workload of the waiter. The advantage is that in a crowded canteen there will be chances that the waiters are overloaded with orders and they are unable to meet the requirement of the customer in a satisfactory manner. Therefore, by using this application, the users can directly place order for food and pick it up once the order is prepared.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015404 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development of Note Taking Application

(51) International classification :B41J 036000, C11B 090000, G06F 031200, G06Q 203800, G06Q 300200
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

ABSTRACT OF THE INVENTION: A Design & Development of Note Taking Application This paper summarises some of the best practices learned from an extended software engineering project completed through a collaboration of multidisciplinary faculty and several teams of computer science students. The collaboration delivered an advanced multimedia note-taking application, as an open educational resource (OER), capable of supporting both students and research into note-making practices. The project lasted beyond a single academic year, thus enabling multiple student cohort participation, and took place in an English medium of instruction, Sino-foreign University in China. The experiences and reflections surrounding the project were examined, with a number of resulting ideas for best practices.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015405 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development Of Credit Card Fraud Detection Through Machine Learning Approach

(51) International classification :C11B 090000, G06N 030800, G06N 070000, G06N 200000, G06Q 204000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT A Design & Development Of Credit Card Fraud Detection Through Machine Learning Approach It is critical for credit card firms to be able to recognize fraudulent credit card transactions which means that customers are not charged for products they did not purchase. In conjunction with Machine Learning, it can be used to solve such difficulties. With Credit card fraud detection, this project demonstrates the modeling of data collection using machine learning. Modeling prior credit card transactions with data from those that turned out to be fraudulent is part of the Credit card fraud detection Problem. The model is then used to determine whether or not a new transaction is fraudulent. Our goal is to detect the faulty transactions among the dataset provided by respective credit card companies and forward the transaction details of those fraudulent transactions through the mail and let them take further investigation of those particular cardholders as a classic example of classification is credit card fraud detection. We concentrated on analyzing and pre-processing data sets, as well as deploying numerous anomaly detection algorithms, during this process and forming an interface between user and provider.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015406 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Design & Development of Pharmacy Management System

(51) International classification :C11B 090000, G06F 112600, G06Q 100800, G16H 201000, G16H 402000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT A Design & Development of Pharmacy Management System This Web-based application allows users to sell their used products as well as buying the used items at a lesser price. This is specially designed for the university students who are residing in a common hostel. This platform makes use of Django as the project's backend component and HTML as the project's skeletal structure. CSS is used for the design, font, and color scheme. The exchange process is crucial to the consumer experience. With the help of the Exchange Offer program, you can trade in a used item for cash or a discount. For instance, when purchasing a new phone, trade in your old one for a discount. Students at the school can register on our CTeX platform, an online exchange service, to begin their exchange. This platform primarily focuses on assisting students in finding the products they need on campus in order to meet their immediate needs. By just looking for a product, this technology creates links between two users—buyer and seller—and enables communication between them on campus. For instance, OLx follows the same process but sells high-end goods like motorcycles and vehicles. However, our CTeX meets urgent needs for things like old beds and scientific calculators. Our platform operates on the campus, despite the fact

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015407 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A Title & Design Of Weather Forecast Using Python

(51) International classification :B67D 010800, F16L 112200, F24F 300000, F24F 301000, G06N 200000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT A Title & Design Of Weather Forecast Using Python Weather forecasting is the prediction of the state of the atmosphere for a given location using the application of science and technology. This includes temperature, rain, cloudiness, wind speed, and humidity. Weather warnings are a special kind of short-range forecast carried out for the protection of human life. Weather warnings are issued by governments throughout the world for all kinds of threatening weather events including tropical storms and tropical cyclones depending upon the location. The forecast may be short-range or Long-range. It is a very interesting and challenging task. This report provides a basic understanding of the purpose and scope of weather forecasts, the basic principles, and the general models developed for forecasting.

No. of Pages : 6 No. of Claims : 3

(54) Title of the invention : A Design & Development Of Netflix Data Analysis

<p>(51) International classification :C11B 090000, G01N 170200, G06F 112600, G06Q 300600, H04L 673060</p> <p>(86) International Application No :PCT/// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)CMR University Address of Applicant :#2, 3rd 'C' Cross, 6th 'A' Main 2nd Block, HRBR Layout Kalyana Nagar Bangalore 560043 Karnataka, India -----</p> <p>2)Dr. Kalyan N Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Boggana Lathesh Yadav Address of Applicant :#2, 3rd 'C' Cross, 6th 'A' Main 2nd Block, HRBR Layout Kalyana Nagar Bangalore 560043 Karnataka, India -----</p> <p>2)Edula Varshitha Address of Applicant :#2, 3rd 'C' Cross, 6th 'A' Main 2nd Block, HRBR Layout Kalyana Nagar Bangalore 560043 Karnataka, India -----</p> <p>3)G.Vamsi Address of Applicant :#2, 3rd 'C' Cross, 6th 'A' Main 2nd Block, HRBR Layout Kalyana Nagar Bangalore 560043 Karnataka, India -----</p> <p>4)I. Chanakya Nithin Sai Address of Applicant :#2, 3rd 'C' Cross, 6th 'A' Main 2nd Block, HRBR Layout Kalyana Nagar Bangalore 560043 Karnataka, India -----</p>
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(57) Abstract :
 ABSTRACT A Design & Development Of Netflix Data Analysis Netflix is a streaming service that offers a wide variety of award-winning TV shows, movies, anime, documentaries and more – on thousands of internet-connected devices. The Netflix content dataset consists of both TV shows and movies that are available on Netflix. With the dataset available, it is impossible to find the information by just looking at it. Instead, to make this job easier data visualization tools are used, Netflix obtains data that has already been compared, sorted and put into perspective. Their teams can simply focus on the decision-making. It provides ranking for the top-most movies that are trending. Netflix uses their streaming platform to curate and highlight directors. It analyses the most popular genres and popularity of Netflix in each country.

No. of Pages : 8 No. of Claims : 2

(54) Title of the invention : A Design & Development Of Adventour- A Travel Guide

(51) International classification :C11B 090000, G06F 112600, G06Q 300200, G06Q 300600, G06Q 501400
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT A Design & Development Of Adventour- A Travel Guide The ultimate goal of the project is to offer a web-based application to explore the requirements of travellers through Karnataka. This solution assists travellers in all aspects such as assisting in accommodations, transport, making them to get prepared for the weather conditions and also to explore places on their interest. Every year thousands of foreigners from diverse countries come to visit Karnataka for different purposes. Most of them come for religious, study, and business purposes. However, being foreigners, the travellers face different types of problems including limited transportation information, problem in understanding different languages and so on. Based on traveller's requirement, we have come up with our web application which can solve their problems during visit. The proposed application is named as "Adventour", which illustrates the features of the state, and all requirements of travellers in a single click.

No. of Pages : 7 No. of Claims : 2

(54) Title of the invention : AI based Smart Chair for Automatic Posture Correction and Personal Fitness Monitoring

(51) International classification :A61B 051100, A63B 240000, A63B 710600, G16H 203000, G16H 406300

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Designed is an AI-based Smart Chair for Automatic Posture Correction and Personal Fitness Monitoring. A SOC is the primary component of the system. A smart chair is designed along with a software application that can be used on a computer and on a mobile device. The inputs are received from the Pressure Sensors, Load Cell, Flex Sensor, Temperature Sensor, Pulse Oximeter and Heart Rate Sensor. As a result of the outputs, the motor control units adjust angle and height automatically, vibrate when an incorrect posture is detected, and monitor the intake of water. The sitting posture of the person is automatically monitored and corrected based on the standard conditions given as input. The operations performed by the system include 3D modelling of posture of the person sitting on the chair, alerts when improper posture is detected, measuring the weight of the person sitting, SPO2 level and Heart Rate monitoring when needed, automatic height and angle of inclination correction, warning given in mobile app and computer app when not enough water taken in a day, continuous sitting for longer time based on temperature measurement, maintain the log of sitting duration and time, water consumed time, weight of person, SPO2 and Heart Rate when measured.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : A System for Random Valued Impulse Noise Reduction in Digital Color Images using Sliced Median Filtering Technique

(51) International classification :G06T 050000, H03H 170200, H04B 011200, H04N 052100, H04N 052130

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: A System for Random Valued Impulse Noise Reduction in Digital Color Images using Sliced Median Filtering Technique The present disclosure proposes a system (100) for de-noising of digital color images using a sliced median filtering technique. The system (100) comprises a computing device (102) having a controller (104), where the controller is configured to control a plurality of functions of the computing device (102) and a memory unit (106) to store a plurality of instructions executable by the controller (104) and a noise filtering module (108) configured to filter impulse noises from the digital color images. The system (100) uses fast vector median peer group filters (FPGF) to treat the impulse noise as anomalies within each row of the image and perform filtering only over the anomalies of the row using a fixed set of previously filtered pixels. This approach reduces the order of computation and ensures accelerated filtering by virtue of processing only those pixels that are determined to be noisy.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : Teaching potential and difficulties with modern cloud computing in the digital humanities and in technical and professional communication

<p>(51) International classification :C11D 110000, G06F 113000, G06F 405800, H04L 671000, H04L 671097</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. J Sreedhar Address of Applicant :Associate Professor, Keshav Memorial Institute of Technology, Narayanaguda, Hyderabad, India-500029 -----</p> <p>2)Narender Chinthamu 3)Rachit Parashar 4)Dr. D Lakshmi Padmaja 5)Dr. Vilis Pawar 6)Dr.P.Privietha 7)Manideep Karukuri 8)Mr.N.Dilip Kumar 9)Dr. Mahesh Sharma 10)Mr.Sachin Kumar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. J Sreedhar Address of Applicant :Associate Professor, Keshav Memorial Institute of Technology, Narayanaguda, Hyderabad, India-500029 -----</p> <p>2)Narender Chinthamu Address of Applicant :MIT (Massachusetts Institute of Technology), CTO Candidate, Enterprise Architect -----</p> <p>3)Rachit Parashar Address of Applicant :Manager - Marketing, Department of Marketing & Sales, Gandhar Oil Refinery (India) Ltd., Mumbai, Maharashtra, 400062, India -----</p> <p>4)Dr. D Lakshmi Padmaja Address of Applicant :Associate Professor, Dept. of Information Technology, Anurag University, Venkatapur Village, Ghatkesar Mandal, Hyderabad, 500088 -----</p> <p>5)Dr. Vilis Pawar Address of Applicant :Assistant Professor, Global Business School and Research Centre, Dr. D. Y. Patil Vidyapeeth, Pune, India -----</p> <p>6)Dr.P.Privietha Address of Applicant :Assistant Professor, Department of Computer Applications, Hindusthan College of Engineering and Technology, Coimbatore, Tamilnadu, India -----</p> <p>7)Manideep Karukuri Address of Applicant :University of Texas at Arlington, MSBA Graduate, Dallas, Texas, United States -----</p> <p>8)Mr.N.Dilip Kumar Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Annamacharya Institute of Technology and Sciences, Tirupati, 517520, Andhra Pradesh, India -----</p> <p>9)Dr. Mahesh Sharma Address of Applicant :Associate Professor, Department of IT, Ideal Institute of Management & Technology (GGSIPU), Delhi, India -----</p> <p>10)Mr.Sachin Kumar Address of Applicant :Research Scholar, Department of Computer Science & Application, Veer Bahadur Singh Purvanchal University, Uttar Pradesh, India -----</p>
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(57) Abstract :

The present invention is directed towards the use of cloud computing technologies to enhance teaching and learning in the fields of digital humanities and technical and professional communication. The invention proposes a number of strategies and resources for leveraging the potential of cloud-based platforms for collaboration, information sharing, and project management. It also involves the integration of cloud-based tools and platforms into traditional classroom instruction, as well as the development of online courses and tutorials that teach cloud computing skills and concepts. The invention seeks to foster collaboration among educators and students, create a community of learners, and address the challenges associated with cloud computing.

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : Impact on investment behaviour with a focus on small and medium-sized business

(51) International classification :B03B 090600, C12M 011070, G01M 070800, G06Q 400400, G06Q 400600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention relates to a system and method for optimizing investment behavior with a focus on small and medium-sized businesses. The system includes a database of investment data, machine learning algorithms for analyzing the data, and a user interface for providing data-driven recommendations to businesses and investors. The method involves analyzing investment data using machine learning algorithms, generating data-driven recommendations based on the analysis, and providing the recommendations to businesses and investors via a user interface. The system and method provide customized investment strategies based on the specific needs and goals of individual investors and businesses, and include a portfolio tracking module that monitors the performance of the investment portfolio and adjusts recommendations accordingly. The invention provides a valuable tool for businesses and investors seeking to improve their investment performance and achieve their financial goals.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : Composition and method for removing heavy metal ions from wastewater using functionalized graphene oxide

(51) International classification :B01J 202800, C01B 321980, C02F 012000, C02F 012800, C02F 014400
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to a composition and method for removing heavy metal ions from wastewater using functionalized graphene oxide. The composition is synthesized by functionalizing graphene oxide with specific functional groups and coupling agents, resulting in a highly selective and efficient adsorbent for heavy metal ions. The method involves adding the functionalized graphene oxide to the wastewater, allowing the adsorption of heavy metal ions, and separating the treated wastewater from the functionalized graphene oxide. The invention also includes embodiments of incorporating graphene oxide nanoparticles, cross linking the functionalized graphene oxide, and using magnetic functionalized graphene oxide for enhanced performance. The composition and method of the present invention offer a cost-effective, environmentally friendly, and sustainable solution for the removal of heavy metal ions from wastewater.

No. of Pages : 17 No. of Claims : 8

(54) Title of the invention : PROCESS FOR PRODUCING COMPLEXES OF PIPERONYL-BUTOXIDE-CYCLODEXTRIN AND AN ANTIVIRAL AGENT

(51) International classification :A61K 312150, A61K 315220, A61P 311200, A61P 311600, C12Q 016883
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT PROCESS FOR PRODUCING COMPLEXES OF PIPERONYL-BUTOXIDE-CYCLODEXTRIN AND AN ANTIVIRAL AGENT Process for producing complexes of piperonyl-butoxide-cyclodextrin and an antiviral agent, wherein the system comprises, pharmaceutical composition wherein comprises compound or pharmaceutically acceptable salt thereof shown in each described formula I of hydrate and one or more pharmaceutically acceptable carrier or vehicle at least. Inactivating the enzyme derived from the plant of the genus Diospyros which was contained in the juice or extract of the fruit of the genus Diospyros plant containing tannin by heating or treating with alcohol. The method comprising particles of a monovalent copper compound, preparing an antibacterial agent composition comprising the silicon-containing compound in an amount of 0.006-24 wt. % and further comprising ethanol and water; and applying or spraying the antibacterial agent composition onto the surface of an article having oxygen-containing functional group on its surface, or immersing the article in the antibacterial agent composition.

No. of Pages : 18 No. of Claims : 1

(54) Title of the invention : MONO AND POLYSACCHARIDE CAPSULE FOR TREATING SKIN IRRITATIONS

(51) International classification :A61K 087300, A61K 450600, A61P 170000, A61P 170600, A61Q 190000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

MONO AND POLYSACCHARIDE CAPSULE FOR TREATING SKIN IRRITATIONS The chemical exfoliant is a compound selected from the group consisting of fruit acids, lactic acid, citric acid, glycolic acid, tartaric acid, salicylic acid, acetic acid, trichloroacetic acid, tretinoin, phenol, resorcinol, or combinations thereof. Schizophyllum commune beta-glucan, shiitake mushroom beta-glucan, sclerotium rolfsii beta-glucan, granola frondosa beta-glucan, Pleurotus ostreatus polysaccharide, mushroom beta-glucan, yeast beta-glucan. The group consisting of potassium channel forming, controlling or blocking agents, calcium channel blocking agents, sodium channel blocking agents, steroids, non-steroidal proinflammatory agents, . aloe vera, chamomile, alpha-mabolo, cola nitid extract, green tea extract, tea tree oil, licorice extract, allantoin, urea, caffeine, and other xanthines, and glycyrrhizic acid and its dehydrate in. An immunogenic composition comprising a polysaccharide-carrier protein conjugate, wherein the conjugate is a capsular polysaccharide derived from group b streptococcal. Ethyl alcohol is added in trapped fluid obtained by stood to get the Bletilla polysaccharide crystal.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015482 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A THIAZINE AMIDE DERIVATIVE HAVING A STRUCTURE OF FORMULA FOR PREVENTION OR TREATMENT OF NEURODEGENERATIVE DISEASE

<p>(51) International classification :A61K 086800, A61K 315400, A61P 251600, A61P 252800, C07D 790600</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Kuntal Das Address of Applicant :Professor Department of Pharmacognosy and Phytochemistry Mallige College of Pharmacy 71, Silvepura, Chikkabanavara Post Bangalore, Karnataka - 560090. -----</p> <p>2)Dr. Paramita Das 3)Mr Darla Raju 4)Dr. Sachin Tyagi 5)Dr. Dasari Vasavi Devi 6)Ms Ranjeeta Verma 7)Dr Rohini Karunakaran 8)Dr. Ojash Patel 9)Mrs. Nemapalli Yamini 10)Dr. Shailendra Sharma 11)Dr. Ujashkumar Shah 12)Dr.Nahid Abbas</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Kuntal Das Address of Applicant :Professor Department of Pharmacognosy and Phytochemistry Mallige College of Pharmacy 71, Silvepura, Chikkabanavara Post Bangalore, Karnataka - 560090. -----</p> <p>2)Dr. Paramita Das Address of Applicant :Associate Professor Department of Pharmaceutical chemistry Krupanidhi College of Pharmacy #12/1, Chikkabelandur, Carmelaram, post. VarthurHobli. Bangalore, Karnataka - 560035. India -----</p> <p>3)Mr Darla Raju Address of Applicant :Assistant Professor, Joginpalli B R Pharmacy College Survey No 156 To 162, Amdapur X Road, Yenkapally, Moynabad, Hyderabad, Telangana -500075 -----</p> <p>4)Dr. Sachin Tyagi Address of Applicant :Professor & Director School of Pharmacy Bharat Institute of technology, Meerut .250103, Uttar Pradesh, India -----</p> <p>5)Dr. Dasari Vasavi Devi Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis, P.Rami Reddy Memorial College of Pharmacy, Prakruthi Nagar, Kadapa- 516 003, Andhra Pradesh, India -----</p> <p>6)Ms Ranjeeta Verma Address of Applicant :Research Scholar, Department of Pharmacy, IFTM University, Moradabad Uttar Pradesh Pin- 244102 Uttar Pradesh, India -----</p> <p>7)Dr Rohini Karunakaran Address of Applicant :Associate Professor, & Preclinical Coordinator, AIMST University, Faculty of Medicine, Semeling, Bedong, Kedah, Malaysia -----</p> <p>8)Dr. Ojash Patel Address of Applicant :Associate Professor Faculty of Pharmacy, SSSRGI, Vadasma-382705 Mahsana, Gujarat -----</p> <p>9)Mrs. Nemapalli Yamini Address of Applicant :Assistant professor (ad hoc) Department of Pharmacology Jntua otpri. jawaharlal nehru technological University, Anantapur, Andhra Pradesh, 515001 -----</p> <p>10)Dr. Shailendra Sharma Address of Applicant :Principal knowledge school of Pharmacy, Shyam University, Dausa Rajasthan 403511 --</p> <p>11)Dr. Ujashkumar Shah Address of Applicant :Professor and Head, Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, SK campus, Visnagar-384315. Dist. Mehsana. Gujarat. -----</p> <p>12)Dr.Nahid Abbas Address of Applicant :Associate professor, Shri devi Institute of Pharmaceutical science NH 4, Sara road Tumkur, Karnataka, India -----</p>
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(57) Abstract :
A THIAZINE AMIDE DERIVATIVE HAVING A STRUCTURE OF FORMULA FOR PREVENTION OR TREATMENT OF NEURODEGENERATIVE DISEASE Delivery means for delivering said cassette or said short hairpin to said location of the brain of said patient through said intracranial access device and further through a stereotactically implanted catheter. A method of treating a neurodegenerative disease or disorder, the method comprising administering to a subject in need thereof an effective amount of a pharmaceutical composition consisting essentially of a compound selected from the group consisting of sunitinib. Administering chlorite salt to a subject having a macrophage-associated neurodegenerative disorder, wherein the chlorite salt is administered in an amount effective to reduce a level of pathologic macrophages in the subject relative to a level before said administering. A pharmaceutical composition comprising the isolated RNA interference agent of a vector encoding said isolated RNA interference agent. A thiazine amide derivative having a structure, or a pharmaceutically acceptable salt, solvate, or hydrate thereof, wherein, r1 is straight or branched chain alkyl.

No. of Pages : 16 No. of Claims : 1

(54) Title of the invention : ANALYSIS OF ACCURACY OF EARLY DETECTION OF BREAST CANCER THROUGH CLASSIFICATION ALGORITHMS OF MACHINE LEARNING

(51) International classification :C07K 144700, C12Q 016886, G06K 096200, G06N 200000, G16H 304000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Analysis of accuracy of early detection of breast cancer through classification algorithms of machine learning is the proposed invention. The invention focuses on predicting the breast cancer at earlier stages itself. The proposed invention implements algorithms of machine learning for the purpose of analysis and prediction.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : DEEP LEARNING TECHNIQUES TO ANALYSE THE IMPACT OF ARTIFICIAL INTELLIGENCE IN QUANTUM THEORY

(51) International classification :G06N 030400, G06N 030800, G06N 050400, G06N 200000, G16H 502000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Deep Learning techniques to analyse the impact of Artificial Intelligence in Quantum Theory is the proposed invention. The invention focuses on understanding the impact of Artificial Intelligence on understanding the Quantum theory. The algorithms of deep learning are used for the purpose of analyzing the properties of Quantum.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : ANALYSIS OF SITE-SPECIFIC TARGETING OF DRUGS THROUGH NANOPARTICLE DELIVERY SYSTEM FOR TREATING ATHEROTHROMBOSIS

<p>(51) International classification :A61K 095100, A61K 475400, A61K 476900, A61P 070200, A61P 250000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.R.E.Ugandar Address of Applicant :Professor & Head, Department of Pharmacy Practice, Santhiram College of Pharmacy, NH-40, Nerawada (Vil.& Po.)-518112. Panyam (M). Panyam -----</p> <p>2)Jyotiba Vitthalrao Pawar 3)Dr Aravinth Vijay Jesuraj 4)Saumya Surekha 5)Ashish Kumar Lamiyan 6)Dr.Sunil Kumar K 7)Dr. Manoj Kumar Banjare 8)Dr. Praveen Kumar Dasari 9)Dr.Rikita Udaybhai Trivedi 10)Pushpendra Kumar Kurre 11)Mr.Ankur Agrawal 12)Uday Nandlal Trivedi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.R.E.Ugandar Address of Applicant :Professor & Head, Department of Pharmacy Practice, Santhiram College of Pharmacy, NH-40, Nerawada (Vil.& Po.)-518112. Panyam (M). Panyam -----</p> <p>2)Jyotiba Vitthalrao Pawar Address of Applicant :Assistant Professor of Chemistry, Thakur college of science and commerce kandivali east Mumbai-400101 MUMBAI -----</p> <p>3)Dr Aravinth Vijay Jesuraj Address of Applicant :Professor and Head, Department of Pharmacy Practice, Nirmala college of Health Science, Chalakkudy Thrissur -----</p> <p>4)Saumya Surekha Address of Applicant :Research scholar, Department of Biochemistry, Panjab University, Chandigarh-160014 Chandigarh -----</p> <p>5)Ashish Kumar Lamiyan Address of Applicant :Research scholar, Department of Zoology, Panjab University Chandigarh, Chandigarh -160014 Chandigarh -----</p> <p>6)Dr.Sunil Kumar K Address of Applicant :Associate Professor Department of Mechanical Engineering, R L Jalappa Institute of Technology Doddaballapur Doddaballapur -----</p> <p>7)Dr. Manoj Kumar Banjare Address of Applicant :Assistant professor, Department of Chemistry (MSS), MATS UNIVERSITY, Raipur, Chhattisgarh 492009India Raipur -----</p> <p>8)Dr. Praveen Kumar Dasari Address of Applicant :Associate Professor, Department of Pharmaceutical Biotechnology, Mother Teresa Pharmacy College, Sathupally. 507303 Sathupally -----</p> <p>9)Dr.Rikita Udaybhai Trivedi Address of Applicant :Dentist, A 101 Kaivalyadham part 2, opp radio mirchi ,Satellite 380015 Ahmedabad -----</p> <p>10)Pushpendra Kumar Kurre Address of Applicant :Shri Rawatpura Sarkar University Raipur Chhattisgarh Department Of Pharmacy Raipur 492015 Raipur -----</p> <p>11)Mr.Ankur Agrawal Address of Applicant :Associate Professor, Jai Institute of Pharmaceutical Sciences and Research Gwalior M.P. Gwalior -----</p> <p>12)Uday Nandlal Trivedi Address of Applicant :Government polytechnic Ahmedabad 380015 Ahmedabad -----</p>
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(57) Abstract :

Analysis of site-specific targeting of drugs through Nanoparticle Delivery System for treating Atherothrombosis is the proposed invention. The proposed invention focuses on predicting the efficacy of Nanoparticles when delivered using site-specific delivery system. The invention mainly concentrates on analyzing the drugs that are used in the treatment of atherothrombosis disease.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : APPLICATION OF LINEAR ALGEBRA AND PARTIAL DERIVATIVES TO MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE

(51) International classification :G06F 171600, G06N 030400, G06N 030800, G06N 070000, G06N 200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Application of Linear Algebra and Partial Derivatives to Machine Learning and Artificial Intelligence is the proposed invention. The invention focuses on understanding the application of Linear Algebra and partial derivatives. The influence of Linear Algebra and partial derivatives on Machine Learning and Artificial Intelligence is predicted.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : METHOD FOR IMAGE TAMPER DETECTION AND RECOVERY USING MULTIPLE WATERMARKS

(51) International classification :G06F 111400, G06F 218600, G06K 190730, G06K 190770, G06T 010000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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 (62) Divisional to Application Number :NA
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(57) Abstract :

METHOD FOR IMAGE TAMPER DETECTION AND RECOVERY USING MULTIPLE WATERMARKS ABSTRACT The proposed method is a tamper detection and recovery method using a self-embedding watermarking technique is developed in the spatial domain. Since watermarks in the spatial domain are fragile and sensitive to any change of an image, it is suitable for tamper detection. We propose to use two lowest bit planes of an original image to embed ten watermarks (WMs) in total. Two different resolutions of WMs are generated by down-sampling the original image. Two identical WMs of higher resolution occupy the least-significant bit (LSB) plane of the original image, while eight identical WMs of lower resolution are embedded to the 2nd-bit (SB) plane. Tamper detection is performed using the SB plane and the recovery of the original image is conducted using the LSB plane. Statistical evaluation of our experimental results show that the proposed method can detect and recover local image tampers successfully.

No. of Pages : 20 No. of Claims : 6

(54) Title of the invention : Disabled Person's Smart Wheelchair System Design with IoT-Based Eye Tracking and Gesture Control

(51) International classification :A61G 030600, A61G 050400, A61G 051000, G06F 030100, G06F 030488
(86) International Application No :PCT///
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
[14] The eye-gazing wheelchair is a novel piece of technology for the physically disabled. With this innovation, patients may now move and control their wheelchairs with only their sense of touch and their eyes. An ongoing scene is captured by a camera and processed using several methods. The position of the pupil is determined using the Haar cascade method, and the wheelchair is manoeuvred accurately using image processing. The wheels of the wheelchair are connected to a DC motor, making mobility simple. There is an ultrasonic sensor installed on the wheelchair that will stop it if it encounters an impediment. Wearing a wireless device with one or more accelerometers on the patient allows for continuous monitoring of the patient's mobility, the detection of a fall based on recorded motions, and the immediate initiation of help should the patient require it. Methods, technologies, and procedures, such as a wheelchair-assist robot, are being investigated for their potential to ease the burden of a wheelchair user's day-to-day life at work, at home, and elsewhere. A wheelchair controller can communicate with a wheelchair interface component on one variant of the mobile wheelchair-assist robot. For instance, a wheelchair-assist robot can be attached to a wheelchair both mechanically and electrically with the help of a mount assembly designed specifically for the purpose.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015528 A

(19) INDIA

(22) Date of filing of Application :08/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED HEART RATE MONITORING SYSTEM FOR SPORTS TRAINING

<p>(51) International classification :A61B 050000, A61B 050240, A61B 080200, A63B 690000, A63B 710600</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Surendra Solanki Address of Applicant :Sr. Faculty IT, iNurture Education Solutions Pvt. Ltd, Bengaluru, Karnataka -----</p> <p>2)Ajitabh Mahalkari 3)Ankit Gupta 4)Sandeep Wadekar 5)Priya Kothari 6)Chandrashekhhar Kothari Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Surendra Solanki Address of Applicant :Sr. Faculty IT, iNurture Education Solutions Pvt. Ltd, Bengaluru, Karnataka -----</p> <p>2)Ajitabh Mahalkari Address of Applicant :Sr. Faculty IT, iNurture Education Solutions Pvt. Ltd, Bengaluru, Karnataka -----</p> <p>3)Ankit Gupta Address of Applicant :Sr. Faculty IT, iNurture Education Solutions Pvt. Ltd, Bengaluru, Karnataka -----</p> <p>4)Sandeep Wadekar Address of Applicant :Sr. Faculty IT, iNurture Education Solutions Pvt. Ltd, Bengaluru, Karnataka -----</p> <p>5)Priya Kothari Address of Applicant :Sr. Faculty IT, iNurture Education Solutions Pvt. Ltd, Bengaluru, Karnataka -----</p> <p>6)Chandrashekhhar Kothari Address of Applicant :Sr. Faculty IT, iNurture Education Solutions Pvt. Ltd, Bengaluru, Karnataka -----</p>
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(57) Abstract :

The present invention relatesto provide an artificial intelligence-based heart rate monitoring system for sports training.Artificial Intelligence is new technology in which huge data is used for machine training and crate algorithm. AI is used in robotics and automation of complex process to get precise result. AI is also knowing artificial neural network. AI is also used in sport filled. It used for smart review, prediction of movement of ball in cricket, resolve disputed event, monitor activity of sports' men etc.Therefore, an artificial intelligence-based heart rate monitoring system for sports training is created to prediction and monitoring of heart rate of sports training at real time.The system is comprising of wearable watch, heart rate detector sensor, IoT network, cloud storage engine, smart display, warning and alert system.The heart rate detector sensor is pest at chest on the heart. It is detected heart sound, heart movement, rhythm of heart.The wearable watch is worn by sports' men on the left wrist. It is connected by heart rate detector sensor through IoT network. It shows heart rate at real time, 5 days history, heart cycle, blood pressure, heartbeat, ECG at real time.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : AQUEOUS RECHARGEABLE SODIUM BATTERY (ARNaB) AND METHOD OF FABRICATION THEREOF

(51) International classification :G02F 011681, H01M 045800, H01M 046600, H01M 100540, H01M 103900
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention provides an aqueous rechargeable Sodium battery (ARNaB) with aqueous Na₂SO₄ as electrolyte, the cathode comprising synthesised Nickel Oxide (NiO), and the anode comprising synthesised graphene. In an embodiment, the cathode is prepared by mixing synthesised NiO with carbon black, polyvinylidene fluoride (PVDF) as a binder, and N-Methyl-2-pyrrolidone (NMP) as a solvent to form a viscous slurry, wherein the slurry was coated on an aluminium foil; and the anode was prepared by mixing the synthesised graphene with PVDF, and NMP to form a viscous slurry, wherein the slurry was coated on a copper foil. The ARNaB possesses high gravimetric energy density of 116.64 Wh/kg, long cycle life and stability upto 5000 cycles with 69.96% capacity retention after 5000 cycles @ 0.1 C-rate, Nominal voltage of 1.2 V, and high specific capacity of 97.22 mAh/g.

No. of Pages : 48 No. of Claims : 12

(54) Title of the invention : FINANCIAL DATA MANAGING DEVICE IN BANK

(51) International classification :G06Q 400000, G06Q 400200, G06Q 400600, G07F 071000, G07F 190000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

With digital transformation being a must for banks wishing to stay in business over the long haul, banks must address a variety of challenges. e.g., rising data volumes, data pervasiveness and user demands for data in order to become the data-driven enterprises they need to be. Massive volumes of data are pouring in from mobile apps and devices in a variety of formats, including images, audio and video. And data is everywhere. Banks are swamped with data on customers, from financial transactions, customer purchase histories, marketing campaigns, social media streams, third-party sources, text messages and more. Users themselves i.e., bank employees are potential analytics users who need trustworthy, secure data they can use for decision support and analysis, with self-service access to both data and easy-to-use analytics.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : A MACHINE LEARNING BASED AUTOMATED SYSTEM TO IDENTIFY THE FRAUDULENT BEHAVIORS IN MEDICAL CLAIMS

(51) International classification :G06N 200000, G06Q 101000, G06Q 300000, G06Q 400800, G16H 503000

(86) International Application No.:NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Detecting fraudulent and abusive cases in healthcare is one of the most challenging problems for data mining studies. Existing studies have a lack of real data for analysis and focus on a very partial version of the problem by covering only a specific actor, healthcare service, or disease. In this article, the proposed strategy identifies fraudulent behaviors in Medicare claims data using several predictors as model inputs. The methodology involves preprocessing and model development phases. At the initial phase, the feature mining is done by estimating their feature importance score. Thus, a transformed dataset is obtained by the model. In the development phase, the RF with SMOTE is applied against the training and testing data. Specifically, SMOTE adapted to balance data and sorts misclassified instances and finds the interesting instances. The results of the proposed model improvises the classifier performance RF with SMOTE when contrast with RF method.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015556 A

(19) INDIA

(22) Date of filing of Application :09/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Modular Transportation system

(51) International classification :B61B 130800, B61B 131000, B61B 131200, G06Q 100600, G06Q 503000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT Modular Transportation system A modular transportation system is disclosed. It has trolleys that can move back and forth over a lightweight rail mounted on columns. The leading trolley is powered by an engine or motor which propels the other trolleys. The leading trolley is provided with a reversing device so that the trolleys can move back and forth. More modules can be readily added as required to increase the length to several hundred metres. Most Illustrative Diagram: FIG.1

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015557 A

(19) INDIA

(22) Date of filing of Application :09/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AUTOMATED TOLL TAX COLLECTION SYSTEM USING SMART CARDS TO IMPROVE PRODUCTIVITY

(51) International classification :B29C 451400, G06Q 202000, G06Q 400000, G07B 150600, G07F 071000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Vehicle population in India has grown 300 times since independence. We need infrastructure and technology to keep pace with this growth. The present toll operation of using tags pasted on the windscreen or cash payment involves time spent at the toll booth leading to delays and vehicle pile-up. It is imperative that we use the latest in technology in accelerating the operation and enhancing user experience. Globally, traffic management and regulation, has been a constant evolution. Many countries have experimented with the RF device, Satellite navigation and prepaid cards. The implementation is envisage using chip-enabled prepaid cards, RF sensors mounted on poles besides the toll booths, back end servers to validate the cards and GSM technology to communicate with the data center. The system includes an automated boom barrier that opens upon successful transaction, and an associated app that allows users to track their balance and transaction history, and recharge their cards. Additionally, the system includes novel features such as integration with other forms of electronic payment, automatic vehicle identification, usage-based tolls, personalized settings, multi-language support, real-time traffic monitoring, and security features. The invention improves upon the current system in terms of efficiency, economic design, automation, and intelligence.

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : An Innovative Approach to Artificial-Intelligence-Enabled Intelligent 6G Networks.

(51) International classification :A61J 010300, B64G 016400, C09D 630000, G05D 010600, H01L 272400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 This invention is an innovative approach to using AI in wireless communication networks, specifically in 6G networks, that can have a significant impact on the future of wireless communication. The invention aims to improve the performance, efficiency, and user experience of wireless communication networks by using AI to analyze network data, predict network behavior, and make decisions about resource allocation. The invention also enables self-optimization and self-healing of the network and enables new use cases and services that were not possible with previous generations of wireless networks, such as the integration of the Internet of Things (IoT) and the support of advanced applications such as autonomous vehicles. Additionally, it also improves the security of the network by using AI-based techniques for network monitoring, identifying, and mitigating potential threats, and the Quality of Service (QoS) for different types of applications by using AI to optimize the network's resource allocation in accordance with the specific requirements of each application

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : A System for Analyzing Foot Parameters to Make Customized Insoles and Method Thereof

(51) International classification :C12M 011200, G01B 112500, G01N 219500, G06Q 501800, H04W 240600

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT: Title: A System for Analyzing Foot Parameters to Make Customized Insoles And Method Thereof The present disclosure proposes a system (100) for analyzing foot parameters to make customized insoles and method thereof. The system (100) for analyzing foot parameters to make customized insoles comprises a transparent platform (102), a scanning module (104), an arc measurement module (106), and a color mapping module (108). The pressure zones of the foot are identified easily using a color mapping technique in the proposed system (100). The proposed system (100) is low cost, easy to use, and prepare 3D foot model within less amount of time based on analyzed foot parameters.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015715 A

(19) INDIA

(22) Date of filing of Application :09/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SYSTEM FOR TREATMENT OF EXHAUST GASES OF DIESEL ENGINES

(51) International classification :A61B 900000, B01D 539400, B01J 350000, B01J 370200, F02B 030600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The present invention relates to a system for treatment of exhaust gases of diesel engines. The system (300) comprises a conduit (308) for receiving exhaust gas from a diesel engine. The exhaust gas includes nitrogen oxides (NOx). The system (300) further comprises an ultrasonic atomiser (304) for generation of Urea Water Solution (UWS) mist from UWS contained in a tank (302). The UWS mist is released within the conduit (308) via an injector (310). Further, a compressor (318) is connected to the tank (302) to facilitate delivery of the UWS mist to the conduit (308). The mist vaporises within the conduit (308) and generates ammonia that reacts with nitrogen oxides (NOx) for reduction into nitrogen (N₂). (To be published with Fig. 3)

No. of Pages : 22 No. of Claims : 6

(54) Title of the invention : A SYSTEM PROVIDED FOR ATTACK RESILIENT POSITION BASED VANET PROTOCOL USING ANT COLONY OPTIMIZATION

<p>(51) International classification :G06N 030000, H04L 671200, H04W 041200, H04W 044600, H04W 841800</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.Basavaraj S Mathapati Address of Applicant :Professor, Department of Computer Science & Engineering, Faculty of Engineering & Technology, Sharnbasva University, Kalaburagi, Karnataka, India. Pin Code:585105 -----</p> <p>2)Dr. Jyoti Marnur</p> <p>3)Dr. Sridevi Hosmani</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.Basavaraj S Mathapati Address of Applicant :Professor, Department of Computer Science & Engineering, Faculty of Engineering & Technology, Sharnbasva University, Kalaburagi, Karnataka, India. Pin Code:585105 -----</p> <p>2)Dr. Jyoti Marnur Address of Applicant :Associate Professor, Department of Computer Science & Engineering, Faculty of Engineering & Technology, Sharnbasva University, Kalaburagi, Karnataka, India. Pin Code:585105 -----</p> <p>3)Dr. Sridevi Hosmani Address of Applicant :Associate Professor, Department of Information Science & Engineering, Faculty of Engineering & Technology (Ex-for Women), Sharnbasva University, Kalaburagi, Karnataka, India. Pin Code:585105 -----</p>
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(57) Abstract :

The present invention discloses a system provided for attack resilient position based VANET protocol using ant colony optimization. In the present invention, the position-based routing of Vehicular Ad hoc Network (VANET) vulnerable to various security attacks because of dependency on computing, control, and communication technologies. The Internet of Things (IoT)-enabled VANET application leads to the challenges such as integrity, access control, availability, privacy protection, non-repudiation, and confidentiality. Several security solutions have been introduced for two decades in two categories as cryptography-based and trust-based. Due to the high computation complexity, cryptography-based solutions are outperformed by recent intelligent trust-based mechanisms. The trust-based techniques are lightweight and effective against the well-known security threats in VANET. The objective of this paper has to design a novel position-based routing in which the conduct of vehicles assessed to accomplish reliable VANET communications. Attack Resilient Position-based VANET Protocol (ARPVP) proposed to detect and prevent malicious vehicles in the network using the trust evaluation technique and artificial intelligence (AI). Accompanied Drawing [FIGS. 1-2]

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015720 A

(19) INDIA

(22) Date of filing of Application :09/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN IOT-BASED VEHICLE TRACKING AND DIAGNOSTIC SYSTEM AND METHOD THEREOF

(51) International classification :B60R 251020, G06F 169535, G07C 050000, G08G 010000, H04W 740800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention discloses an IoT-based vehicle tracking and diagnostic system and method thereof. In the present invention, an Internet of Things (IoT)-based receiver that, in response to navigation signals transmitted by a satellite navigation system, provides information describing the location of the vehicle as described by the navigation signals; and an input unit that, in response to an event or condition associated with the vehicle, provides information describing the event or condition. The information describing the event or condition and the information intrinsically defining the location of the vehicle are transmitted into a cellular telephone communications link by a mobile unit controller that is responsive to the input unit and the IoT based receiver. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING ACTIVITIES OF A USER

(51) International classification :A61F 021600, G06N 030400, G06Q 201000, G06Q 300200, H04N 012100

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention discloses a system (100) for determining activity of a user. The system (100) comprises at least one sensor (102) mounted on each arm of a suspender (104) worn by the user (106). The at least one sensor (102) captures movement data of the user (106). A processing element (110) is connected with the at least one sensor (102) for acquiring the movement data. A wireless transmitter (114) is connected with the processing element (110), for transmitting the movement data to a user device (202) configured to determine one or more activities of the user (106) through processing of the movement data. The processing of the movement data is performed using one or more machine learning models over a cloud server (204) or a user device (202). (Fig. 1)

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015747 A

(19) INDIA

(22) Date of filing of Application :09/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ASSESSMENT OF INDUSTRY 4.0 MATURITY MODELS BY DESIGN PRINCIPLES

(51) International classification :A61P 250000, A61P 252800, H04L 010600, H04L 050000, H04W 740800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :

ASSESSMENT OF INDUSTRY 4.0 MATURITY MODELS BY DESIGN PRINCIPLES ABSTRACT The fourth industrial revolution and accompanying digital transformation have progressed dramatically in recent years. The new digital process, mostly known as Industry 4.0, introduces impressive changes in how enterprises and organizations operate in a globalized world and alters society's well-established lifestyle. Therefore, it is of utmost importance to identify companies' current capabilities in the context of Industry 4.0. Recent literature on Industry 4.0 maturity and assessment models underlies the importance of a proper development strategy with exact steps to perform. Design principles address the issue of systematizing measurable and attainable efforts for further development. The present study contributes towards identifying the research gap in the presence of core Industry 4.0 design principles while developing maturity models. The analysis of 12 chosen maturity models by eight core design principles was provided. This research can serve as a starting point for developing a complex strategic roadmap, thereby providing a successful transition from traditional manufacturing into Industry 4.0.

No. of Pages : 25 No. of Claims : 7

(54) Title of the invention : NEW MEDIA TECHNOLOGIES AND BARRIERS IN TEACHING

(51) International classification :G11B 200000, H04M 017244, H04N 191760, H04N 196100, H04N 212347

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 NEW MEDIA TECHNOLOGIES AND BARRIERS IN TEACHING ABSTRACT This research aimed to evaluate the level of understanding and students' interest in Jawi education after educational technology media was used in teaching and learning at primary schools. This learning emphasizes the aspects of usage and effectiveness of media-aided teaching systems. Exploring the notion of the instrument recognized positive attitudes and students associated with the use of educational technology media in the teaching and learning process. Computer usage can stimulate effective learning and improve the performance of Jawi education, enhancing the high level of interactivity among students.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : DESIGN OF SAFETYBED: A NEOTERIC TECHNOLOGY BASED OLDAGE PEOPLE FALL DETECTION USING NEURAL NETWORK

(51) International classification :A61B 050000, A61B 051100, G06N 030400, G06N 030800, G08B 210400

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT Elderly people falling are quite common in bathroom while taking showers. Several variables contribute to the degeneration. The hardest aspect is when older people experience fatal events like heart attacks or what are often referred to as strokes and become unconscious. The elderly may live and totally recover if the problem is treated quickly. There might then be dire repercussions. Technologies for fall detection and prevention are crucial given the ageing population. The goal of emerging technology is to create innovations that will enhance people's quality of life, particularly the elderly. A fall prevention system's objective is to anticipate falls and lower their risk. To decrease the effects of falls, a fall detection system tracks the fall and generates an aid warning. This paper presents recommendations for an efficient camera vision-based Convolutional neural network fall detection technique (CNN). When a fall is detected by our project, a zigbee connection transmits the information to the hardware system. The LCD may show the relationships and statistics while the LED is ON to warn the user if a fall is detected. Optical cameras and continuous wave radar simultaneously collect data about human behavior. Information training and fall action identification are accomplished using a variety of Convolutional neural networks (CNNs), which are based on the abstraction of both the microwave and optical elements of the collected information. The fall detection system's overall performance may be considerably enhanced by merging the data from multiple sensors. Extensive experiments support the recommended approach.

No. of Pages : 11 No. of Claims : 2

(54) Title of the invention : DATA ANALYSIS PERSPECTIVE ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN HUMAN RESOURCE MANAGEMENT FOR SALES

(51) International classification	:G06K 096200, G06N 030800, G06N 200000, G06Q 100600, G06Q 101000
(86) International Application No	:PCT//
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
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(57) Abstract :
DATA ANALYSIS PERSPECTIVE ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN HUMAN RESOURCE MANAGEMENT FOR SALES Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society Human Resource Management has seen a lot of significant changes in the previous 10 years, the majority of which have been induced by technological advancements. Current improvements in data-driven methodologies are causing an earthquake in the human resources industry. There has recently been a shift in the importance of making people feel appreciated at work. Aside from information and communication technology, many businesses are turning to computational tools to help them locate, engage, develop, and retain personnel. In this digital age, most businesses employ machine learning to help them be more productive and make better decisions. Machine learning is a discipline of computer science that allows computers to learn new tasks and change their behaviour in response to new information without having to be completely reprogrammed. Machine learning is the act of creating predictions based on data stored in computers, and it employs a number of algorithms to accomplish this. This study looks at how machine learning has been applied in human resource management in the past.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : IoT Based Smart Agriculture Monitoring, Automation and Intrusion Detection System

(51) International classification :G06F 215500, G06Q 500200, G08B 131960, G08B 251400, H04L 671200

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(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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IoT Based Smart Agriculture Monitoring, Automation and Intrusion Detection System Abstract: Growing energy cost and demand has motivated many organizations to achieve smart ways to monitor, control, and save energy. Smart automation can reduce costs while still satisfying energy demand. The residential, commercial, and industrial sectors can utilize the technologies of the Internet of Things (IoT) to manage energy consumption better. This paper presents a low-cost, open-source, and reliable Supervisory Control and Data Acquisition (SCADA) system for home monitoring and control system. The presented SCADA system consists of analog sensors, ESP32, Node-RED, and Message Queuing Telemetry Transport (MQTT) through local Wi-Fi to remotely access and control appliances. This system helps the users to monitor various conditions in the home, such as temperature, humidity, pressure, and light intensity. Thus, users can remotely monitor various devices such as lights, fans, heating/cooling systems, make decisions based on the feedback of sensors. Both the industry and the nation would be harmed by an over emphasis on agriculture's contribution to economic growth. Agriculture is the principal source of income for around one-third of Indians and employs more than seventy percent of the workforce. Agricultural difficulties have historically impeded the India ability to reach its full potential. Sustainable agriculture, which involves incorporating traditional farming practises into the twenty-first century, is the only truly viable answer to this issue. In order to make agriculture smarter, the programme proposes to leverage automation and the Internet of Things. In today's agriculture industry, manual irrigation techniques such as traditional drip and can watering are still commonly employed. In contrast, conventional watering systems are neither exact nor efficient. This suggests that either insufficient or excessive irrigation has occurred. In addition, it is difficult for farmers to anticipate how much food will be required and when. When an agricultural field is supervised manually, human error is possible, which could jeopardise rural residents. Farmers may be unaware of a break-in if they do not routinely inspect their farms. This project's objective is to establish a system that will automatically irrigate and monitor plants. As an extra benefit, this configuration will enable real-time monitoring of the environment and more efficient water use based on predetermined criteria. This method also safeguards the plants and decreases the possibility of theft.

No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : IOT BASED APPLE SWEETNESS MEASUREMENT AND FRUIT DISEASE PREDICTION USING IMAGE PROCESSING TECHNIQUES AND DEEP LEARNING BASED ON HUMAN-COMPUTER INTERACTION FOR INDUSTRY 4.0

<p>(51) International classification :G06F 403000, G06N 030800, G06T 050000, G06T 070000, G16H 502000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. D. Sivakumar Address of Applicant :Professor, Department of Computer Science and Engineering, Rajarajeswari College of Engineering, Ramohalli Cross, Mysore Road, Kumbalgodu, Bengaluru, Karnataka 560074, India -----</p> <p>2)Sunita Chalageri 3)Dr. Mareeswari V 4)Dr. Sindhu S 5)Dr. K. Ravikumar 6)Muralidharan R 7)Ram Prasad Chakraborty 8)Mrs. Rasika Manoj Rewatkar 9)Dr Subhrendu Guha Neogi 10)P. Anupriya Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. D. Sivakumar Address of Applicant :Professor, Department of Computer Science and Engineering, Rajarajeswari College of Engineering, Ramohalli Cross, Mysore Road, Kumbalgodu, Bengaluru, Karnataka 560074, India -----</p> <p>2)Sunita Chalageri Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, ACS College of Engineering, Mysore Road, Kumbalgodu, Bengaluru, Karnataka 560074, India -----</p> <p>3)Dr. Mareeswari V Address of Applicant :Professor & HOD, Department of Computer Science and Engineering,AMC Engineering College, AMC Campus, Bannerghatta Main Rd, Bengaluru, Karnataka 560083, India -----</p> <p>4)Dr. Sindhu S Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, APJ Abdul Kalam Technological University, Jyothi Hills, Panjal Rd, Vettikattiri, Cheruthuruthi, Thrissur, kerala, India -----</p> <p>5)Dr. K. Ravikumar Address of Applicant :Associate Professor, Department of Computer Science and Engineering, RRASE College of Engineering, Vandalur- Oragadam Highway, Vanchuvancheri, Padappai, Kancheepuram, Tamilnadu, India -----</p> <p>6)Muralidharan R Address of Applicant :Dean, Department of Computer Science, E. S. Arts & Science College (Co-Ed), Ellischathiram Road, Vazhathareddy, Villupuram – 605401, Tamil Nadu, India -----</p> <p>7)Ram Prasad Chakraborty Address of Applicant :Assistant Professor, Department of Information Technology(IT), Dr. B.C. Roy Engineering College, Jemua Road, Fuljhore, Durgapur -713206. West Bengal, India. -----</p> <p>8)Mrs. Rasika Manoj Rewatkar Address of Applicant :Assistant Professor, Department of Information Technology, Rashtrasant Tukdoji Maharaj University, Nagpur, Kavikulguru Insititute of Technology and Science, Mauda Road, Post K. K. Nagar, Parsoda, Ramtek, Nagpur, Maharashtra, India -----</p> <p>9)Dr Subhrendu Guha Neogi Address of Applicant :Associate Professor, Department of Computer Science and Engineering, AMITY University, opposite Airport, Maharajpura, Gwalior, Madhya Pradesh – 474005, India -----</p> <p>10)P. Anupriya Address of Applicant :Assistant Professor, Department of Computer Applications, Hindustan College of Arts & Science, Rajiv Gandhi Salai, Padur, Kelambakkam,(OMR), chennai-603103, Tamilnadu, India -----</p>
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(57) Abstract :
 IOT BASED APPLE SWEETNESS MEASUREMENT AND FRUIT DISEASE PREDICTION USING IMAGE PROCESSING TECHNIQUES AND DEEP LEARNING BASED ON HUMAN-COMPUTER INTERACTION FOR INDUSTRY 4.0 Abstract: Disease identification is one of the most difficult elements of agricultural research. When attempting to diagnose a plant's ailment, agricultural specialists usually reference a range of resources. Misdiagnosing ill plants can occasionally lead to the unnecessary administration of pesticides, which can have catastrophic effects on agriculture. Automated disease detection systems are the primary means of increasing their use and obtaining more precise and early disease diagnosis. This is significant for farmers because the alternative is time-consuming and costly. In order to successfully separate the diseased leaf from the healthy leaves, it must be cut into little pieces. Digital noise, which varies from image to image and is influenced by variables such as background, shape, and brightness, making it more difficult to identify a sick photo. To improve the image quality of apple leaf scans so that diseases can be identified and classified, the brightness preserving dynamic fuzzy histogram equalisation technique was created. Determine an apple's flavour by tasting it and examining its leaves. In the following section, we will compare the effectiveness of the proposed strategy to that of other common techniques for improving things. By isolating the area of interest in pictures of sick leaves against a green background, our method surpasses existing segmentation techniques. Examining the Jaccard index, the Dice coefficient, and the precision at this time. The suggested segmentation methodology outperforms the best existing techniques. It is 99.8 percent accurate in distinguishing apple ill leaves from a living backdrop.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : Thermally-Induced Changes in Appropriate Packings of Binary Particle Mixtures

(51) International classification :A61B 170000, A61B 180000, A61B 181400,
A61B 900000, A61N 070000

(86) International Application :PCT//
No Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to :NA
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(57) Abstract :

Abstract Particle packing is crucial in fields like chemical engineering and manufacturing. The approach presented here uses the discrete element method to create cylinder-shaped particles and compact binary cylinder mixtures under poured packing conditions. Planar packing fraction is a valuable metric for analyzing the effects of particle A/R with volume fraction upon the packing arrangement. Packing porosity can be measured with the help of the Voronoi tessellation. Local packing features of twofold blends with varying volume fractions can be described by calculating the accumulative dissemination of local packing proportions and the probabilities of the restricted free volume on Voronoi units. In this binary mixture, particles with more excellent aspect ratios are more likely to be randomly oriented, whereas particles with smaller aspect ratios are more likely to be horizontally aligned. The results also demonstrate that combinations with higher A/R and blends with a superior share of stretched cylindrical particles produce the least dense packing.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : LAPLACE TRANSFORM TO SOLVING THE PARTIAL DIFFERENTIAL EQUATION IN TERMS OF ITS APPLICATION

<p>(51) International classification :B01L 030000, G01R 335600, G06F 171300, G06G 074000, H04N 071730</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Y. Hari Krishna Address of Applicant :Assistant Professor, Department of Humanities and Science, ANURAG Engineering College, Ananthagiri (M), Kodad, Suryaper (D), Telangana - 508206, India Suryaper ----- 2)Dr. Tirumala Hari Priya 3)Ravula Edukondalu 4)Dr. Karnati Veera Reddy 5)Dr. P. Bindu Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Y. Hari Krishna Address of Applicant :Assistant Professor, Department of Humanities and Science, ANURAG Engineering College, Ananthagiri (M), Kodad, Suryaper (D), Telangana - 508206, India Suryaper ----- 2)Dr. Tirumala Hari Priya Address of Applicant :Professor, Department of Mathematics, Sreyas Institute of Engineering and Technology, Tattiannaram, Bandlaguda, Nagole, Hyderabad - 500068, Telangana, India Hyderabad ----- 3)Ravula Edukondalu Address of Applicant :Assistant Professor, Department of Humanities and Science, ANURAG Engineering College, Ananthagiri (M), Kodad, Suryaper (D), Telangana - 508206, India Suryaper ----- 4)Dr. Karnati Veera Reddy Address of Applicant :Assistant Professor, Department of Mathematics, Guru Nanak Institutions Technical Campus, Ibrahimpatnam, Rangareddy (Dist) - 501506, Telangana, India Rangareddy ----- 5)Dr. P. Bindu Address of Applicant :Assistant Professor, Department of Mathematics, Koneru Lakshmaiah Education Foundation, Green fields, Vaddeswaram, Guntur - 522205, Andhra Pradesh, India Guntur -----</p>
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(57) Abstract :

Generally it has been noticed that differential equation is solved typically. The Laplace transformation makes it easy to solve. The Laplace transformation is applied in different areas of science, engineering and technology. The Laplace transformation is applicable in so many fields. Laplace transformation is used in solving the time domain function by converting it into frequency domain. Here we have applied Laplace transformation in linear ordinary differential equations with constant coefficient and several ordinary equations wherein the coefficients are variable. Laplace transformation makes it easier to solve the problems in engineering applications and makes differential equations simple to solve. This paper presents a new technological approach to solve Ordinary differential equation with variable coefficient.

No. of Pages : 7 No. of Claims : 3

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(21) Application No.202341015813 A

(19) INDIA

(22) Date of filing of Application :09/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DYNAMIC HARDENING AGENTS, VITRIMERS AND PROCESSES THEREOF

(51) International classification :C08G 591800, C09D 750400, C11D 170000, G03C 013000, G03F 070000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

DYNAMIC HARDENING AGENTS, VITRIMERS AND PROCESSES THEREOF The present disclosure provides a dynamic hardening agent comprising: (a) an aldehyde optionally having at least one first regulator group; and (b) an amine having at least one second regulator group, wherein the first regulator group and the second regulator group are independently selected from hydroxy, acetal, carboxy, ester, amino, disulfide, polysulfide, or combinations thereof; and the aldehyde and the amine are covalently bonded by an imine linkage. The present disclosure also discloses a vitrimer and processes thereof.

No. of Pages : 40 No. of Claims : 32

(54) Title of the invention : IMPROVING SPECTRUM SENSING IN COGNITIVE RADIO INTERNET OF THINGS USING MACHINE LEARNING ALGORITHM

(51) International classification :G06N 030800, G06N 200000, H04B 173820, H04B 173910, H04W 161400
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
IMPROVING SPECTRUM SENSING IN COGNITIVE RADIO INTERNET OF THINGS USING MACHINE LEARNING ALGORITHM Cognitive Radio Network based Internet of Things (CRN-IoT) is an emerging and prominent technology. The effective spectrum management in CRN-IoT provides better quality of service. CRN-IoT technology addresses the problem of spectrum scarcity in wireless communication systems. The Cognitive Radio Network (CRN) is an intelligent and innovative technology that provides a novel solution to spectrum scarcity problem. The unused PUs spectrum is detected by spectrum sensing technology with no interference between SUs and PUs. In CRN-IoT, the SUs receives the PUs signal and report it to the Fusion Center for decision on spectrum allocation. During the detection of PUs status (presence or absence), the SUs cooperates among themselves for spectrum sensing which is called Cooperative Spectrum Sensing (CSS). However, the performance of this system may be degraded by potential attacks by the Malicious CR-IoT users (MSUs) that send their incorrect sensing information to the corresponding Fusion Center (FC). Misleading information about the status of PUs is sent by malicious users in the network. The proposed innovation makes use of Machine Learning algorithms to handle the Malicious SUs and improve the accuracy of spectrum sensing in the network.

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : FlairX is next generation IoT based social media to connect higher education with industrial demands through experiential learning

(51) International classification :G06Q 500000, G06Q 501000, G06Q 502000, G09B 190000, H04L 671200

(86) International Application No :PCT// /

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

Despite recent advances in e-Learning, more work is needed to improve learning for everyone and close the research gap in present artefacts. E-learning artefacts have these limitations. First, they lack adaptability variants. Since they only recommend e-learning, peers, or communities. Second, they often prioritize technology over e-learning theory and pedagogy. Finally, their focus on e-learning activities rather than processes prevents them from fully capturing the experience. To address the aforesaid limitations, this project investigates the effectiveness of merging three advanced technologies (Business Process Modelling and Enactment, Semantics, and Service Oriented Computing – SOC–) with learning pedagogy to improve the e-learner experience. This research developed the HeLPS e-Learning Framework, a hybrid process-based, semantically enriched, and service-oriented framework. In this framework, a general e-learning process was established bottom-up by assessing a wide range of e-learning models (practical artefacts) and associated pedagogies/concepts (theories). An e-Learning Meta-Model captures the domain's semantics and procedures. Service-oriented architecture formalises and dynamically executes such operations. Video streaming platform and domain-based coaching to meet industrial expectations. The e-Learning Meta-Model, which uses Semantic Web Rule Language to encapsulate domain rules, is a third major addition. Developing a semantically enriched approach to identify and find online services from e-learning business process models promotes Service-Oriented. Fifth, the e-Learner Experience Model (eLEM) and e-Learning Capability Maturity Model (eLCMM) strive to identify and quantify the e-learner experience, while the latter represents a technologically mature e-learning process. Another addition is a Concern-based Evaluation Method for e-Learning artefacts, which combines both models with a new data-driven Validation and Verification Model.

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : IoT-driven systems of NLP for duplicate signature verification with a dynamic database of reference using Machine Learning

(51) International classification :A61B 343000, G05F 033000, G06N 200000, H04L 093200, H04W 044000

(86) International Application No :PCT///
 Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Several systems currently allow automatic offline Handwritten Text Recognition due to the digital mobility of physical manuscripts (HTR). Business and financial transactions are still authorised by signatures. Automatic signature verification is needed to ensure validity. Signature verification can be online or offline. While the stylus (also a sensor) travels, its location, velocity, acceleration, and pen pressure are recorded online. Online systems employ acquisition data. We compared classic statistical methods with cutting-edge neural network approaches in Natural Language Processing utilising five well-known datasets of text lines, three optical models for text recognition, and eight spelling correction procedures to demonstrate the efficacy of this novel method (NLP). A database would hold users' signatures and personal information. While authenticating a user, the system required a signature (a test signature). The neural network would process this signature and output a fixed-length, 256-dimensional embedding. The authentication server receives the data.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341015872 A

(19) INDIA

(22) Date of filing of Application :09/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : PIDGIN ENGLISH'S ADVERSE AFFECT ON HIGH SCHOOL STUDENTS' ACADEMIC SUCCESS IN THE CLASSROOM

(51) International classification :A47B 410000, G06Q 502000, G09B 190600, H01L 296600, H02M 010000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT PIDGIN ENGLISH'S ADVERSE AFFECT ON HIGH SCHOOL STUDENTS' ACADEMIC SUCCESS IN THE CLASSROOM This invention was carried out in view of the influences of Pidgin English amongst the students. It was conducted on two hundred students and eight teachers from four selected schools, four government workers and eight staff from the media. This research was executed because of the high rate of communication in Pidgin English amongst secondary school students, which has become a threat to their educational career. However, it was discovered in the course of the study, that there are factors that enhance this issue. The negative impact of the socio-linguistic status of Pidgin English in society has necessitated some recommendations which include: The creation of awareness among parents, the media and the government against the dangers of habitual use of Pidgin English, introduction and training of teachers on introduce effective methods during the English language lesson delivery. The government should invest more resources and manpower in education to enable the children from poor homes improve in the English Language, and Pidgin English should be introduced in the curriculum, so students could know the structures and lexical, to avoid code-switching it with that of the English Language.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : A CRITICAL EVALUATION OF INTERNATIONAL VALUE OF INDIAN RUPEE AND ITS IMPACT ON INDIAN ECONOMY

(51) International classification :A23L 272000, A63B 150000, B27D 011000, C07D 932200, C12Q 016888

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 [05] The aim is to examine and see why the Indian Rupee is fluctuated against the United States Dollar and to see the impact of macroeconomic variables on the fluctuation in exchange rate. To find out the objective, data have been collected and tested. On the basis of the results, conclusions are provided. It provides final conclusions about how the fluctuations in United States Dollar bring fluctuations in Indian Rupee. Major reasons for the high inflation rate, interest rate, external debt, deficit trade balance and current account deficit is the dependency on foreign countries for imports. It can be due to several reasons as low technical knowhow, low level of employment, higher amount of inflation, India unfriendly relations with China, Pakistan results in war (India China war 1962 and Indo Pak war 1971, 1965), political instability and Financial crisis of 2008. For these reasons, India needs the financial help from outsiders and foreigners and they demand the money of foreign country. Thus, leads to appreciation in the value of the United States Dollar and depreciation of the Indian Currency. High dependency on imported products is highly and mainly responsible for the fluctuation in macroeconomic variables against the India Exchange Rate. Exchange rate of India against United States Dollar is not stable for the time period of 1991- 2016. There are fluctuations in the exchange rate due to fluctuations in the macroeconomic variables. At the time of 1991, value of exchange Rate was 22.3 and reached to 67.8 Rupee against United States Dollar due to fluctuations in macroeconomic variables. Thus Macroeconomic Variables have significant impact upon the exchange rate of India through export import behaviour. Exchange Rate of Indian Currency is decreasing against United States Dollar at high pace as dependency on imports is increasing from 1991-2016. For increasing in the dependency on imports external debt, current account deficit and trade deficit is going to increase. Due to increase in these macroeconomic variables value of Indian currency is depreciating against the United States Dollar.

No. of Pages : 29 No. of Claims : 2

(54) Title of the invention : “MEDICATED LOLLIPOP FOR IRON SUPPLEMENTATION AND METHOD FOR PREPARATION THEREOF”

<p>(51) International classification :A23G 035600, A61J 070000, A61K 090000, A61K 311980, A61K 332600</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Hemalatha. K Address of Applicant :HOD & Assistant professor, Department of Pharmacognosy Acharya & B M Reddy College of Pharmacy Acharya Dr. Savepalli Radhakrishan Road. Soladevanahalli, Achit Nagar post Bengaluru-560107. Bengaluru -- -----</p> <p>2)Miriyam Claudish AJ Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Hemalatha. K Address of Applicant :HOD & Assistant professor, Department of Pharmacognosy Acharya & B M Reddy College of Pharmacy Acharya Dr. Savepalli Radhakrishan Road. Soladevanahalli, Achit Nagar post Bengaluru-560107. Bengaluru -----</p> <p>2)Miriyam Claudish AJ Address of Applicant :Acharya & B M Reddy College of Pharmacy Acharya Dr. Savepalli Radhakrishan Road. Soladevanahalli, Achit Nagar post Bengaluru-560107. Bengaluru -- -----</p>
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(57) Abstract :
Amedicated lollipop for iron supplementation, comprising i) herb in the range of around 3g; ii) sugar in the range of 100g; and iii) ancillary ingredient in the range of q. s (quantity sufficient). The method for preparation of the herbal emulsion comprises the following step, i) dissolving sugar in water, followed by heating to obtain a sugar solution; ii) transferring the sugar solution in a stainless-steel water jacketed vessel, followed by incorporation of additional element and herb with constant agitation to obtain a mixture solution; and iv) molding the mixture solution in different shapes to obtain the medicated lollipop.

No. of Pages : 11 No. of Claims : 6

(54) Title of the invention : MACHINE LEARNING ENABLED SYSTEM FOR DETECTION OF DEPRESSION SEVERITY SCORES BASED ON EEG SIGNAL

(51) International classification :A61B 050000, A61P 252400, G06F 030100, G06N 030800, G06N 200000

(86) International Application No :PCT//

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :
The present invention relatesto provide a machine learning enabled system for detection of depression severity scores based on EEG signal.Emerging technology can be helpful to detection of neurological abnormalities in precise manner in short span of time.Machine learning technology is emerging technology which predict abnormalities precisely in short of time span.Depression severity scores gives depression severity of patient.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016333 A

(19) INDIA

(22) Date of filing of Application :11/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Design and Implementation of Dynamic Wireless Charging Station for EV

(51) International classification :B60L 531200, B60L 533000, H02J 070000, H02J 501200, H02J 504000
(86) International Application No.:PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
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(57) Abstract :

Internal combustion engines are increasingly being replaced with electric vehicles as a result of recent fossil fuel limitations and issues related to global warming. The main difficulties in charging an electric car are the power transfer technologies and charging times. The purpose of this project is to construct an ARUDINO microcontroller-based wireless power charging station in a dynamic environment to address both problems using the transformer induction principle and adaptive robotic technology. The transmitting coil, which is placed beneath the road, and the receiving coil of a high efficiency wireless power transfer system for charging electric vehicles provide the initial power supply. When the electric car, which carries the receiver coil, travel along the path of the transmitter coil. The receiver coil is electric vehicles receive power to recharge electric vehicles from the transmitting coil. Based on the principle of electromagnetic induction techniques. As a result, the electric vehicle, which has a transmitting coil, can charge automatically as it crosses the road.

No. of Pages : 7 No. of Claims : 7

(54) Title of the invention : QUANTIFICATION OF POLYSACCHARIDES OF Manilkara hexandra BARK

(51) International classification :A01K 150200, A61P 170000, B27L 010000, B27L 011000, B27L 011200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention was carried out to extract, isolate and quantify the polysaccharides from the bark of Manilkara hexandra. Plants are the most important source of human survival. Plant polysaccharides are ideal candidates for therapeutics with immunomodulatory, antitumor and wound healing action. Manilkara hexandra (Mimusops hexandra) is an evergreen tree belongs to family Sapotaceae. The extraction of the polysaccharides was carried out and tested for the presence of sugar compounds by standard procedures. Later, the quantification of the four sugar moieties, sucrose, maltose, xylose and lactose was performed by phenol sulphuric acid method. The amount and concentration of sucrose, xylose, maltose and lactose was found to be 0.48, 0.29, 0.42, and 0.425 % respectively. The individual sugar molecules were separated from the extract by column chromatography. The structures of the isolated polysaccharides were confirmed by IR, NMR and mass spectroscopy. The results of spectral data indicates the presence of lactose and trehalose in the polysaccharide extract.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016351 A

(19) INDIA

(22) Date of filing of Application :11/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : EXPERIMENTAL RESEARCH STUDY ON GEO POLYMER CONCRETE USING EGG SHELL POWDER WITH REACTION GENERATING LIQUID

(51) International classification :A23K 102600, A23K 103000, G09G 033600, G16B 300000, G16B 400000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT EXPERIMENTAL RESEARCH STUDY ON GEO POLYMER CONCRETE USING EGG SHELL POWDER WITH REACTION GENERATING LIQUID In this twenty-first century, Development is not only related to innovativeness in new applications but also reliability of infrastructural technology. Concrete is the main ingredient for the construction of infrastructure. When compared to other applied materials in the environment of concrete, its main component is cement. It is widely used in construction materials because of the raw materials present over the world. Nowadays Portland cement is the most popular cement concrete, but Global warming occurs due to the emission of the subsequent amount of carbon dioxide releasing quantity. So, to overcome this situation researchers are making a new step towards new alternative material named Geo Polymer concrete developed by Joseph Davidovits. It seems to be a potential alternative to standard concrete. In this we are using waste materials of combustion of coal powder waste Flyash and Disposal of waste material eggshell powder for the full replacement of cement using the Reaction generating liquid with (flyash70% - eggshell 30%), (flyash80% - eggshell20%), (flyash90% - eggshell10%), (flyash100% - eggshell 0%) compressive strength, split tensile strength, Flexural strength testing experiments are performed based on their proportions. This evaluating work mainly concentrates on the change in impact factor of silica modulus consisting of Reaction Generating Liquid (RGL) (SiO₂/Na₂O) ranging from 0.6 to 1.5.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016352 A

(19) INDIA

(22) Date of filing of Application :11/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : DEVELOPING COMMUNICATIVE COMPETENCE IN INDUSTRY 4.0 ERA

(51) International classification :A23K 103000, C07K 143150, G06Q 100600, G06Q 300000, G06Q 500000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT DEVELOPING COMMUNICATIVE COMPETENCE IN INDUSTRY 4.0 ERA The Fourth Industrial Revolution (Industry 4.0) necessitates a change in this educational system. Education 4.0 has emerged to meet the needs of Industry 4.0. To compete in the global job market in Industry 4.0, students must be able to up skills in new technologies and communicate effectively in English. Over the past two decades, Education policymakers and advocates have emphasized developing Communicative Competence in higher education. In the Industry 4.0 Era, teaching and learning the English language to develop learners' communicative Competence are critical in India. The study says undergraduate students should improve in Communicative Competence to meet industry readiness. This paper discusses innovative strategies required to develop Communicative Competence among undergraduate students.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : NUMERICAL COMPUTATION AND EXPERIMENTAL ANALYSIS OF FAILURE AND JOINT EFFICIENCY IN RIVETED AND HYBRID RIVETED JOINTS

<p>(51) International classification :A61P 350000, B21D 390300, E21B 170420, F16B 050400, F16L 150600</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. S. Sambath Address of Applicant :Professor Department of Mechanical Engineering R.M.K. Engineering College, R.S.M. Nagar, Kavaraipettai – 601206, Thiruvallur Dist., TamilNadu Chennai --- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S. Sambath Address of Applicant :Professor Department of Mechanical Engineering R.M.K. Engineering College, R.S.M. Nagar, Kavaraipettai – 601206, Thiruvallur Dist., TamilNadu Chennai --- -----</p> <p>2)Dr.N.Anbazhaghan Address of Applicant :Principal V.R.S. College of Engineering and Technology, Arasur-607107, Villupurum District, Tamilnadu Arasur -----</p> <p>3)Dr. A. Arul Jeyakumar Address of Applicant :Associate Professor Department of Mechanical Engineering SRM Institute of science and Technology, SRM Nagar, Kattankulathur - 603 203, Chengalpattu District, Tamil Nadu. Arasur -----</p>
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(57) Abstract :

Riveting is a classical joining technology in structural engineering applications. It is used in armed vehicles, railways, steel bridges, vessels and boilers etc. In spite of having a wide range of applications it has various drawbacks like shearing, tensile, crushing, tearing and fatigue failure. By strengthening the rivet joints to reduce these failures, hybrid joints are implemented instead of the conventional joints. Hybrid Joints are made by the combination of mechanical joints with adhesives. In this project, the specimens model of conventional and hybrid riveted joints are created using the Pro-E® software and then the specimen model is imported to ANSYS 14.0® (FEA Software) for analysing the extent of failures. The stress distribution level of various riveted, adhesive and hybrid joint specimens are estimated based on the analysis. Aluminium alloys, Epoxy adhesives and Structural steel are used for the specimens. The current invention is fully focused on stress analysis in the rivet joint mechanics for enhancement of the strength of riveted joints. Using the numerical analysis, failure modes, stress concentration areas can be determined in the riveted and hybrid riveted joints in structural and manufacturing applications.

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : DESIGN OF RELIABLE FIRE DETECTION SYSTEM

<p>(51) International classification :G01N 255200, G08B 170000, G08B 170600, G08B 171200, G08B 291800</p> <p>(86) International Application No :PCT/// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. S. Sambath Address of Applicant :Professor Department of Mechanical Engineering R.M.K. Engineering College, R.S.M. Nagar, Kavaraipettai – 601206, Thiruvallur Dist., TamilNadu Chennai --- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S. Sambath Address of Applicant :Professor Department of Mechanical Engineering R.M.K. Engineering College, R.S.M. Nagar, Kavaraipettai – 601206, Thiruvallur Dist., TamilNadu Chennai --- -----</p> <p>2)Dr. N. Anbazhaghan Address of Applicant :Principal V.R.S. College of Engineering and Technology, Arasur-607107, Villupurum District, Tamilnadu Arasur -----</p> <p>3)Dr. T. Lakshmanan Address of Applicant :Professor Department of Mechanical Engineering SRM Institute of science and Technology, SRM Nagar, Kattankulathur - 603 203, Chengalpattu District, Tamil Nadu. Kattankulathur -----</p>
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(57) Abstract :

Fire continues to occur in modern architecture, the people's lives and property has brought huge loss. In order to suppress the fire in the building an automatic fire detection system has to be installed. In many of the industries and high rise buildings, single fire detection system is equipped to detect the fire. But this fire detection system is prone to false alarm. False alarm is the main problem encountered in any of the fire detection system. The definition of false alarm is the fire signal resulting from a cause other than fire. If an automatic fire detection and fire alarm system is used and maintained properly, its rapid response to fire can greatly reduce the risk of life and limit damage to property. In this project a reliable fire detection system has been proposed, which comprises of combination of sensors like smoke detector, temperature or heat detector and infrared flame detector. First, these three detectors are fabricated separately and combined by a technique called multiplexing technique. This multiplexing technique uses time division multiplexing to form a single channel. The signal detected will be an analog signal and is converted to digital signal by using analog to digital converter in order to give input to the microcontroller. The microcontroller will process the signal by using an algorithm called decision making algorithm and this algorithm acts as a decision maker and give us a reliable output.

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : An enhanced Artificial Neural Network (ANN) for assessing respiratory risk associated with air pollution

(51) International classification :A61B 050000, A61B 050870, G06N 030400, G06N 030800, G16H 503000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

The invention relates to an enhanced Artificial Neural Network (ANN) for assessing respiratory risk associated with air pollution. The ANN uses a novel activation function called Hptex, which replaces existing activation functions, to improve the performance of the ANN. Hptex is characterized by one-sided boundedness at zero, smoothness, and non-monotonicity. The ANN assesses the mortality risk associated with particulate matter and metrological variables and identifies the correlation between respiratory infections, AQI, and metrological parameters. The proposed activation functions were designed to replace existing activation functions with reduced loss and processing time. The invention also includes a method for assessing respiratory risk associated with air pollution using the enhanced ANN. The invention addresses the need for accurate respiratory risk assessment associated with air pollution by providing a highly efficient and accurate method for identifying the risk factors associated with respiratory diseases.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016392 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : WOMEN IN THE NOVELS OF MANJU KAPUR

(51) International classification :A21D 133100, A61K 361850, C07K 144700, G06N 030400, G06N 030800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Manju Kapur's fiction is an apology for feminism. Her novels revolve around certain enigmatic issues in the society. As a committed novelist, she deals with such pressing issues in order to create awareness among the reading public that feminism as a cultural concept should be practiced everywhere. Feminism is a desirable necessity in the absence of which the society loses its equilibrium in the relationship between men and women. A woman need not be always a help-mate, but she should be a checkmate, if not always, at times so that she can make her home a better one by offering timely counselling to her husband. Kapur is not a liberal humanist to remain uncommitted in dealing with such embarrassing issues as monogamous heterosexuality, equality in every sphere of life, alternative sex, sexual gratification, extra-uterine child birth, women's intellectuality, marital hindrances, women's emancipation and women's empowerment.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016393 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IMPLEMENTATION OF IOT IN FIRE SAFETY SYSTEM IN PETROLEUM INDUSTRY

(51) International classification :A61K 083100, C09K 085240, C09K 085400, E21B 432600, G08B 251400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Today there are many sudden accidents are happened in various industries. So, Safety is important in industry sector. A new intelligent smart protection system for industry based on various sensors, Arduino UNO microcontroller with IoT network is proposed in current research paper. This innovation namely IoT Based Petroleum Industry Protection System Using Arduino UNO will detect any leakage of Gas, Fire, Smoke and sensing temperature Keep track of the condition of Gas concentration and temperature in IoT platform through a Wi-Fi module protect the industries from accident and saves many lives. In this Protection system if the gas or smoke reaches a certain extent it gives a signal by buzzer sound. Here Internet of Things is used to communicate with the device for sending and receiving required information and data through internet. So it can be controlled and monitored from anywhere & anytime through computer, mobile or any smart device. More over combination of embedded electronics and Computer programming is the significant outcome of the work.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016399 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An algebraic method for solving combinatorial optimization problems

(51) International classification :E21B 430000, G06F 171100, G06N 031200, G06N 050000, G06N 100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

This invention relates to a method for solving combinatorial optimization problems using algebraic equations. Combinatorial optimization problems are ubiquitous in various fields, including computer science, engineering, and operations research. The proposed method involves formulating the optimization problem as an equation with variables and constraints, and then optimizing the equation using algebraic techniques such as linear programming, integer programming, quadratic programming, and nonlinear programming. The invention also encompasses a system and a computer program product for solving combinatorial optimization problems using algebraic equations. Furthermore, the method can be applied to optimize systems by formulating the system as an optimization problem, formulating the problem as an equation with variables and constraints, and optimizing the equation using algebraic techniques to obtain an optimal solution. Overall, the proposed invention provides a novel and efficient approach to solving combinatorial optimization problems.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016400 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Predicting child mental stress using AI

(51) International classification :A61B 050000, A61B 051600, A61P 170000, A61P 251800, H01L 297800
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present invention is related to predicting child mental stress using AI. The invention involves a system that collects data from various sources, such as wearable devices, social media activity, academic performance, and other factors that may impact a child's mental health. The data is analyzed by an AI-based prediction algorithm, which identifies patterns and predicts the likelihood of mental stress in the child. The system is customizable, allowing users to adjust the algorithm's parameters and criteria to better suit the specific needs of the child. The system generates a report that provides an objective assessment of the child's mental health status, along with personalized recommendations for addressing the child's mental health needs. This invention has the potential to provide a powerful tool for predicting mental stress in children, and ultimately improve outcomes for children with mental health issues.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016401 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : IOT based solar powered battery less street light

(51) International classification :F21S 080800, F21S 090300, F21W 311030, H02J 073500, H02S 403800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The IoT-based solar-powered battery-less street light is a sustainable and reliable lighting solution for urban areas that utilizes renewable energy sources and advanced IoT technology for remote monitoring and control. The system includes a solar panel, super capacitor, LED light source, and IoT module for customized lighting needs and requirements. It reduces environmental impact and provides cost-effective lighting solutions by adjusting brightness based on ambient light conditions. The scalable system can be easily installed and expanded to meet the growing lighting needs of urban areas.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016402 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Water surface cleaning boat using IOT

(51) International classification :B63B 353200, B63H 160400, B63H 230600, E02B 151000, H01L 216770
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The present invention is a water surface cleaning boat that utilizes IoT technology to improve its functionality and efficiency. The boat is designed to collect floating debris and pollutants using a combination of vacuum suction and oil-absorbing material, and is equipped with sensors that collect data on water quality, such as pH level, dissolved oxygen, and temperature. The data is transmitted to a central server for analysis, where it can be used to monitor the health of the water body and identify pollution sources. The boat offers several advantages over traditional water cleaning methods, including improved efficiency, reduced labor requirements, increased accuracy, reduced environmental impact, and cost-effectiveness. This patent describes the working concepts, components used, advantages, and prior art related to the water surface cleaning boat using IoT technology.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016403 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : An AI enabled solar panel rotation system

(51) International classification :F21S 090300, G05D 031200, H01L 310480, H02S 104000, H02S 203200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

The AI-enabled solar panel rotation system is an innovative solution that uses machine learning algorithms and sensors to track the position of the sun and adjust the orientation of solar panels, optimizing energy output in real-time. By using past performance data and predicting weather patterns, the system can continuously learn and adapt to maximize energy generation over time. The system can be controlled remotely through a Smartphone app or web interface and can be integrated with existing solar panel installations. It offers a customizable solution for meeting specific energy generation goals and performance requirements, making it an effective tool for managing energy production across multiple solar panel installations. Overall, the invention offers a cutting-edge approach to maximizing solar energy generation and offers a significant improvement over existing solar tracking systems.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : Certificate authentication system with block chain technology

(51) International classification :G06F 216400, G06Q 200200, G06Q 203800, H04L 093200, H04L 670100

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 The Certificate authentication system with blockchain technology is an innovative solution that aims to address the shortcomings of traditional certificate verification systems. By using blockchain technology, the system provides increased transparency, reduces the need for intermediaries, and offers a more secure and tamper-proof way to verify digital credentials. The tamper-proof nature of blockchain ensures that certificates cannot be forged, altered, or deleted, providing greater security and trust in the certification process. The system can be used across multiple industries, including education, finance, and healthcare, where digital credentials play a critical role. As more organizations adopt blockchain technology, the Certificate authentication system with blockchain technology is likely to become the standard for certificate verification, leading to a more efficient and secure way to verify digital credentials.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016405 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Design of low cost solar instant solar heater

(51) International classification :F24S 105000, F24S 107000, F24S 603000, H01L 210200, H01L 410470
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The low-cost instant solar water heater is a promising solution for providing hot water in an efficient, environmentally friendly, and cost-effective way. This technology utilizes solar energy to heat water, reducing energy costs and dependence on traditional sources of energy, while also reducing carbon emissions. The system comprises a collector, storage tank, and circulation system, with modifications to enable immediate access to hot water. The design is simple and easy to install, using low-cost materials such as plastic, copper or aluminum, making it affordable and accessible to a wider range of people. The system provides a range of advantages, including increased independence, improved quality of life, lower environmental impact, low maintenance, scalability, and versatility. Additionally, the technology has the potential to provide employment opportunities and improve the standard of living in local communities. With its unique features and benefits, the low-cost instant solar water heater can have a positive impact on both individuals and the environment, especially in remote or rural areas with limited access to electricity or gas.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016417 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Deep Learning Resolves Representative Movement Patterns in a Marine

(51) International classification :B25J 091600, G06N 030400, G06N 030800, G16H 406700, H04N 052250
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

ABSTRACT DEEP LEARNING RESOLVES REPRESENTATIVE MOVEMENT PATTERNS IN A MARINE The analysis of animal movement from telemetry data provides insights into how and why animals move. While traditional approaches to such analysis mostly focus on predicting animal states during movement, we describe an approach that allows us to identify representative movement patterns of different animal groups. To do this, we propose a carefully designed recurrent neural network and combine it with telemetry data for automatic feature extraction and identification of non-predefined representative patterns. In the experiment, we consider a particular marine predator species, the southern elephant seal, as an example. With our approach, we identify that the male seals in our data set share similar movement patterns when they are close to land. We identify this pattern recurring in a number of distant locations, consistent with alternative approaches from the previous invention.

No. of Pages : 19 No. of Claims : 7

(54) Title of the invention : SUPERSTRUCTURE WITH PRECAST DECK ELEMENTS FOR BUILDING AN ARCHED WALL

(51) International classification :B27M 030400, B60S 013800, E01B 010000, E01D 040000, E02D 290200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT SUPERSTRUCTURE WITH PRECAST DECK ELEMENTS FOR BUILDING AN ARCHED WALL Housing, the basic need of every human being. At the outset there was mud. Primitive houses were built simply of mud & straw blocks heated in the sun. The Romans were the pioneers in construction technology to experiment blending of lime and volcanic rock to create sublime and awe-inspiring structure like Pantheon in Rome, still the largest unreinforced concrete dome on the planet. Use of precast in construction is not new. Ancient Romans made the use of moulds to cast their mind-boggling system of tunnels & aqueducts. With ever increasing demand for housing, a need to automate and modernize the construction industry was deemed. In the present scenario, engineering and architectural innovation & improvisation has enabled the construction world to explore the neo-arena of precast technology. Innovation & development is not creating something new, but redefining the existing thing in a modern way. The construction industry discarded the load bearing structure owing to its limitations and to match the demand of housing. This favoured the adaptation of reinforced concrete framed structure to make construction more reliable and faster. But, to fulfil the growing market aspirations, precast technology is the next possible solution. Precast technology offers precedence over conventional framed construction with regards to speed, durability, modularity, quality control, efficiency, automation, aesthetics, affordability, accuracy, optimisation, and low maintenance. Most of us have played with Lego toys as a child. We can envision the future of construction just the same. With Precast, we can envisage a sustainable, speedy, sturdy, safe and stylish future for the construction industry. This invention highlights the case study for adoption of Precast Technology to achieve fast-track, sustainable, and cost-effective construction of high-rise buildings in Indian Scenario.

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : VEHICLE OVERLOAD MANAGEMENT SYSTEM

(51) International classification :A01B 610400, B30B 152800, B66C 239000, B66D 015800, H04W 280200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

Commercial Vehicle overloading on highways and roads – a menace; a bane to the exchequer having the onus of maintaining the road infrastructure – it not only increases his expenses but, is also one of the major causes of road accidents and also over 50% of the commercial vehicles plying on our National /State highways are overloaded. Although there are legal axle load limit and gross vehicle weight limit of the vehicles plying on roads, they are violated wickedly by the transporters. The damage by over-loaded vehicles to pavements is exponential. Controlling overloading not only prevents premature failure of the pavement but also brings in monetary benefit to the concessionaire. In this experiment the overloading of the vehicles is avoided thus it helps in the saving of the cost and prevent in the failure of the vehicles. The experimental result shows the increased fuel efficiency comparing to the overloading and the normal loading of the vehicle, easy steering control, reduces accidents, increases speed of vehicles, requires lesser pavement maintenance costs and operating cost.

No. of Pages : 6 No. of Claims : 2

(54) Title of the invention : NIFEDIPINE LOADED CHITOSAN NANOPARTICLES AND PREPARATION METHOD THEREOF

(51) International classification :A61K 091400, A61K 095100, A61K 314400, A61K 314422, A61P 091200
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention provides a nifedipine loaded chitosan nanoparticles. A nifedipine loaded chitosan nanoparticles, comprising of nifedipine, chitosan and sodium tripolyphosphate, wherein the average particle size of nifedipine loaded chitosan nanoparticles ranges from 100 nm to 200 nm. The present invention also provides a process for the preparation of nifedipine loaded chitosan nanoparticles. The process for the preparation of nifedipine loaded chitosan nanoparticles, comprising of dissolving chitosan in aqueous acetic acid solution; dissolving nifedipine in methanol and adding to tween 80 solutions; adding above solution to chitosan solution; adding sodium tripolyphosphate to above solution and stirring to give nifedipine nanosuspension. The process for the preparation of nifedipine loaded chitosan nanoparticles wherein the nanoparticle suspension is milled or centrifuged to give nifedipine loaded chitosan nanoparticles. The in vitro nifedipine release profile from nifedipine loaded chitosan nanoparticles of present invention is in range of 90-93 % at the end of 24 hrs.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016436 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ROAD DRAINS MADE WITH PERVIOUS CONCRETE COMPOSITION AND METHOD THEREOF

(51) International classification :C04B 110000, C04B 200000, C04B 280200, E01C 071400, E01C 112200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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Filing Date :NA
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(57) Abstract :

The present invention discloses road drains made with pervious concrete composition and method thereof. The design of pervious concrete for road pervious drains must meet the following requirements: Permeability: To allow water to go through it fast, pervious concrete needs to have a high permeability rate. Strength: To support the weight of vehicles, pervious concrete needs to have enough compressive strength. Durability: Pervious concrete needs to be strong and resilient to the effects of weathering and other environmental variables. To allow for the filtering of pollutants and the growth of flora, pervious concrete needs to be very porous. Maintenance: It should be simple to maintain and repair the pervious concrete. Construction of Pervious Concrete for Road Pervious Drains. Accompanied Drawing [FIGS. 1-9]

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016437 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : ALGINATE BEADS COATED WITH SUPER-PARAMAGNETIC IRON OXIDE NANOPARTICLES-SILVER NANOPARTICLES FOR PATHOGENS AND HEAVY METAL REMOVAL

<p>(51) International classification :B60H 010000, C02F 012000, C02F 012800, F24F 132000, H02J 070000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. Deenadhayalan Rajalakshmi Address of Applicant :Student, School of Bio and Chemical Engineering, Sathyabama Institute of Science and Technology, Sholinganallur, Rajiv Gandhi Salai, Chennai, Tamil Nadu, 600119, India -----</p> <p>2)Mr. Noel Richard Prakash Lawrence Xavier</p> <p>3)Ms. Sivasuriyan Kirthika Shree</p> <p>4)Mr. Sudhir Sakthi Raja Arumuga Kumar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Mahendran Sathiyasree Address of Applicant :Student, School of Bio and Chemical Engineering, Sathyabama Institute of Science and Technology, Sholinganallur, Rajiv Gandhi Salai, Chennai, Tamil Nadu, 600119, India -----</p> <p>2)Dr. Antony Vincent Samrot Address of Applicant :Deputy Dean, School of Bioscience, Faculty of Medicine, Bioscience and Nursing, MAHSA University, Jenjarom, Selangor-42610, Malaysia -----</p> <p>--</p>
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(57) Abstract :

The present invention provides alginate beads coated with super-paramagnetic iron oxide nanoparticles and silver nanoparticles, comprising: alginate beads; superparamagnetic iron oxide nanoparticles; and silver nanoparticles. The alginate beads coated with super-paramagnetic iron oxide nanoparticles-silver nanoparticles are useful for removal of pathogens and heavy metal from wastewater. The process for the preparation of alginate beads coated with super-paramagnetic iron oxide nanoparticles-silver nanoparticles, comprises, adding sodium alginate powder and super-paramagnetic iron oxide nanoparticles to silver nanoparticle solution; stirring the mixture vigorously to obtain homogeneous solution; adding the solution to the mixture containing 10% of calcium chloride solution and 1mL of Tween 20 drop by drop; and storing the obtained beads in cool temperature. The present invention provides process for the preparation of super-paramagnetic iron oxide nanoparticles wherein Super-paramagnetic iron oxide nanoparticles removes the heavy metal contaminant in water. The present invention provides the process for the preparation of silver nanoparticles wherein the silver nanoparticles play role in killing of pathogens.

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : Low cost ultraportable multipurpose agricultural cutter

(51) International classification :A47B 230000, A47B 230400, B25F 010000, F16M 112200, F16M 130000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Our goal is to create a low-cost, easily operated, manually propelled grass-cutting equipment. When a person pushes the machine, a pair of spur gears (one large and one small spur gear) transmits rotation from the wheel. The larger gear cannot complete one rotation before the smaller gear has completed several rotations, increasing the velocity. A pair of bevel gears is used to transmit the rotation from the smaller gear in a perpendicular direction. The power is transferred from the spur gear pair to the cutting blades utilising a scotch yoke mechanism and a helical bevel gear pair. To maintain the height of the grass on lawns, a machine is created to be used instead of hand scissors. Wheels, blades, a bevel gear pair, and a spur gear pair are the components employed. Spur gears and bevel gears are used to transmit the wheel's rotary motion when the machine is pushed, causing the blade to move horizontally to and fro. The Scotch Yoke Mechanism is used to achieve this. One blade is fixed, while the other moves horizontally to and from. Grass gets cut when it is wedged between the two blades' teeth. It is simple to use and runs without electricity.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : Low cost portable automatic paper stamping machine

<p>(51) International classification :B41F 130300, B41G 010200, B41J 132000, B65H 035200, G16H 502000</p> <p>(86) International Application No :PCT/ Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sathishkumar Natesan Address of Applicant :3-91/3-89a, Pallakadu, Akkaraipatti (Post), Mallasamudram (Via), Rasipuram (Taluk), Namakkal (District) ----- 2)Dr.M.Arun 3)SANJAI SRIRAM K 4)THIRUMALAI KUMARAN S 5)RENIBAN R 6)SIVASUBRAMANIYAN A 7)SHARAN SHIBI 8)WINNARASAN 9)SUJITH KUMAR S 10)SREE HARISH 11)Mohana Ranga S Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.M.Arun Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 2)N.Sathishkumar Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 3)SANJAI SRIRAM K Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 4)THIRUMALAI KUMARAN S Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 5)RENIBAN R Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 6)SIVASUBRAMANIYAN A Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 7)SHARAN SHIBI Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 8)WINNARASAN Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 9)SUJITH KUMAR S Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 10)SREE HARISH Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 11)Mohana Ranga S Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai ----- 12)MUKESH U Address of Applicant :Department of Mechanical Engineering St.Joseph's College of Engineering Old Mamallapuram Road Chennai 600 119, Tamil Nadu, India. Chennai -----</p>
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(57) Abstract :
Packaging is one of the end processes of all manufacturing industries as outputs are required to be stored, protected and shipped according to customers' requirements. Most small-scale industries have outsourced the end process of manufacturing due to high cost of using automated means of stamping cartons, papers and nylons. Small scale industries have been accustomed to manual methods of stamping with low machine efficiency, longer delivery time, and high labor costs in a quest to meet customers' requirements. This current trend of stamping problems has made the small-scale enterprises to lose large number of market share to the large-scale manufacturing outfits. The need to make stamping process affordable, using easy to maintain machines and also complying to rood regulatory bodies necessitated the need for this work. Stamping Machine is one of the principal machines in stamping industry & printing industry. It is mainly used as the name indicates to stamp the logo or any other symbols. stamping mechanism of paper useful in many kinds of organization like Universities, Government offices, Post offices, Banks, Colleges etc. The feed of the paper will be accomplished using a roller mechanism and the stamping will be done by incorporating a simple link mechanism. By using Beam engine and simple crank mechanism we can easily simplify the structure.

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : DESIGN AND DEVELOPMENT OF MULTI-LAYERED SECURITY SYSTEM USING CRYPTOGRAPHY AND STEGANOGRAPHY

(51) International classification :C11B 090000, G06F 211000, G06Q 202400, G06T 010000, G09C 050000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The Internet as a whole does not use secure links, thus information being transmitted may be vulnerable to interception as well. The importance of reducing the chances of information being detected during transmission is a major issue. A solution to be discussed is how passing of information can be done in a manner that the very existence of the message is unknown. Encryption avoids passive attacks (reading) and by steganography, the message becomes undetectable. We make use of AES algorithm and Least Significant Bit (LSB) technique for hiding messages in an image. We have enhanced the LSB technique by randomly dispersing the bits of the message in the image and thus making it harder for an unauthorized person to extract the original message. The AES provides a good security as it takes considerably much more time to break by the brute force method for a given key length. The proposed methodology is proved good and produced expected output.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : DEEP LEARNING BASED ARTERY DEPOSITION ANALYSIS USING SEGMENTATION AND CNN CLASSIFICATION

(51) International classification :G06K 096200, G06N 030400, G06N 030800, G06T 070000, H04N 199100
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

Deep learning has revolutionized the field of medical imaging and has been widely used in medical image analysis, such as Artery Deposition Analysis. This project aims to develop an automated deep learning based analysis framework for artery deposition analysis using segmentation and convolutional neural network (CNN) classification. The proposed framework utilizes the segmentation techniques to identify the regions of interest containing the artery deposition. The convolutional neural network (CNN) then classifies the segmented regions as either containing artery deposition or not. The proposed framework is tested on a set of publicly available arterial images and the results show that the proposed system can accurately identify the regions containing artery deposition. The accuracy of the proposed system is found to be comparable to the existing methods.

No. of Pages : 9 No. of Claims : 10

(54) Title of the invention : AUTISTIC CHILDREN'S EMOTION RECOGNITION FOR EFFECTIVE LEARNING WITH SMART CLASS VIDEO USING TECHNOLOGY

(51) International classification :G06F 030100, G06F 030410, G06T 190000, G10L 253000, G10L 256300

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Recent technological and methodological advancements in automated emotion identification may help improve treatment for autistic youngsters. The essay focuses on strategies for understanding children's emotions. This document includes a quantitative and qualitative literature review that followed the standards for reporting. The reviewed studies use a wide variety of data collection and analysis techniques, including analyses of physiological signals, speech prosody, and facial expressions. Most representation models will only pick up the most common emotions, such as joy, fear, and sadness. Although a single channel is preferred, using multiple channels is not unheard of. One of the earliest methods of multimodal recognition was the fusing of signals. The two most popular methods for creating classifiers were supervised learning neural networks and unsupervised learning. The method of group formation and the most frequent combinations of modalities and procedures were both illuminated by qualitative analysis. There have been widespread reports of channel disruptions, which could make the manifestations of a given mood unavailable, either momentarily or permanently. Challenges in developing open datasets were also noted, along with the need for suitable stimuli and labelling techniques. While they are pervasive in every aspect of our lives and are receiving more and more attention every day, emotions are still difficult to define and classify. If we start tracing the definitions of emotions back in time, we find endless debates and endless definitions. Aristotle proposed his own taxonomy of emotions in 400 B.C. The catalogue of proposals is so extensive that, in 1981, the authors of gathered 92 different definitions of emotion, each one considering a different aspect of the same topic. For now, and following the trends of affective computing over the last few years, we will take an emotion to be a physical reaction of the body, caused by the limbic system, to some event or circumstance. This reaction can be either perceptible for external observers (changes in the tone of voice, facial expressions, body gestures) or imperceptible (heartbeat, electrical brain activity, etc.). We will look at this more closely in the following subsection. Two of the most popular proposals regarding emotions and their classification were made by Robert Plutchik and Paul Eckman. Robert Plutchik proposed a model based on a 2D/3D "flower" of emotions. In Plutchik's model, called the wheel of emotions every human emotion is a combination of several primary emotions, namely ecstasy, admiration, terror, amazement, grief, loathing, rage and vigilance. Each primary emotion can lead to others, depending on the degree of intensity with which someone feels it. The rest of the emotions are combinations of these primary emotions.

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : SELECTION OF SOLAR FARM LOCATION FOR SUPPLYING ENERGY TO OSMOSIS DEVICE SYSTEM

(51) International classification :A47L 154200, C02F 010000, C02F 014400, C02F 090000, H01L 311800
 (86) International Application No :PCT/
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The selection of a suitable solar farm location for supplying energy to an osmosis device system is a critical factor in achieving a successful implementation of the system. Solar farms are typically placed in locations with high solar exposure and minimal obstructions to the sun's rays. This ensures that the system receives the most energy possible, allowing it to operate efficiently and effectively. When selecting a solar farm location, several factors must be taken into consideration. First, the amount of sunlight the site receives must be assessed. This will determine the amount of energy that can be harvested from the solar farm. Second, the terrain of the site must be evaluated. Areas that are too hilly or with a large number of trees can obstruct the sun's rays, resulting in a lower energy output. Third, the distance between the solar farm and the osmosis device system must be considered. The closer the system is to the solar farm, the less energy will be lost in transmission. In addition to the physical characteristics of the site, the local regulations and incentives should also be taken into account. Some areas may have tax credits or other incentives that can make the installation of the solar farm more cost-effective. Additionally, local zoning regulations may dictate where the solar farm can be placed.

No. of Pages : 9 No. of Claims : 9

(54) Title of the invention : A SYSTEM FOR PROVIDING HARDWARE-BASED PROTECTION OF A BATTERY PACK OF AN ELECTRIC VEHICLE

(51) International classification :B60K 010400, B60L 506400, B62D 252000, H01M 104200, H01M 502000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 ABSTRACT A SYSTEM FOR PROVIDING HARDWARE-BASED PROTECTION OF A BATTERY PACK OF AN ELECTRIC VEHICLE The present disclosure relates to a system(100) for providing hardware-based protection of a battery pack of an electric vehicle. The system includes an input unit (104) to receive a current value of current flowing through a sensor placed in a conduction path between a power source and a load; a processing unit (106) to receive the current value from said input module (104), determine whether the current value exceeds a threshold value, and generate a control signal when the current value is determined exceeding the threshold value; and a transceiver module (108) configured to receive the control signal from said processing module (106), and transmit the control signal to a plurality of analog front end (AFE) units (110), which activate pyro fuses connected in between battery cells of the battery pack.

No. of Pages : 18 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017119 A

(19) INDIA

(22) Date of filing of Application :14/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : AN ELECTRIC CURRENT MEASURING SYSTEM AND A METHOD THEREOF

(51) International classification :B60L 505200, G01R 152000, G01R 152400, H01J 372440, H01J 373040
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT AN ELECTRIC CURRENT MEASURING SYSTEM AND A METHOD THEREOF The present invention envisages an electric current measuring system (100) for an electrical circuit. The electrical circuit has current conducting electrical paths, and at least one electrical path includes a switch device (10). The system (100) comprises a microprocessor (25) The microprocessor (25) configured to calculate a current value (I) of current flowing in the at least one electrical path. The microprocessor (25) includes a sensing means and a processing module (40). The sensing means is configured to receive voltage signals across the switch device (10). The processing module (40) is configured to compute differential voltage value (V) across the switch device (10) using the received voltage signals and accordingly measure the current value (I) using the voltage value (V).

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017120 A

(19) INDIA

(22) Date of filing of Application :14/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SYSTEM AND A METHOD FOR REDUCING THE BRAKING DISTANCE OF A VEHICLE

(51) International classification :B60T 081761, B60W 201400, B66B 050200, F01N 090000, G08G 011600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

ABSTRACT A SYSTEM AND A METHOD FOR REDUCING THE BRAKING DISTANCE OF A VEHICLE The present disclosure discloses a system(100) and a method(200) for reducing the braking distance of a vehicle. The system(100) comprises a system on module (SOM)(104) communicatively couple to a mobile device of a driver and detects a mobile operating state when the driver of the vehicle attends an incoming call on the mobile device; a sensing module(106) to sense the vehicle speed from an acceleration sensor(106a) of the vehicle in response to the mobile operating state detected by SOM(104), for detecting a vehicle operating state when the vehicle speed is more than zero; a braking control module(108) to generate a control command signal based on the detected mobile operating state and the detected vehicle operating state, and transmit control command signal to braking system.

No. of Pages : 24 No. of Claims : 23

(54) Title of the invention : IOT AND AI BASED AUTOMATIC LEAF DISEASE DETECTION SYSTEM IN DIFFERENT CROP SPECIES THROUGH IMAGE FEATURES ANALYSIS AND ONE CLASS CLASSIFIERS USING DEEP LEARNING ALGORITHMS

<p>(51) International classification :G06K 096200, G06N 030800, G06N 202000, G06Q 500200, H01L 212650</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Pradeep Sudhakaran Address of Applicant :Assistant Professor - Senior Grade, Department of Computing Technologies, School of Computing, SRM Institute of Science and Technology, Potheri, Kattankulathur-603203, Chengalpattu District, Tamil Nadu, India. -----</p> <p>2)Abhay B. Solunke 3)M. Vijay Sekhar Babu 4)Dr Devendra Kumar 5)Dr. Kanchan Hans 6)Dr. Saroj Kumar Nanda 7)Dr P D Selvam 8)Dr. Sharad Timaji Tajane 9)K. Venkatagurunatham Naidu 10)Dr. Mani Goyal Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Pradeep Sudhakaran Address of Applicant :Assistant Professor - Senior Grade, Department of Computing Technologies, School of Computing, SRM Institute of Science and Technology, Potheri, Kattankulathur-603203, Chengalpattu District, Tamil Nadu, India. -----</p> <p>2)Abhay B. Solunke Address of Applicant :Associate Professor and Head, Department of Microbiology, Shri Govindrao Munghate Arts and Science College Kurkheda, Gadchiroli, Maharashtra, India -----</p> <p>3)M. Vijay Sekhar Babu Address of Applicant :Research Scholar, Department of Geo Engineering, Andhra University, Maddilapalem, Vishakapatnam, Andhra Pradesh, India -----</p> <p>4)Dr Devendra Kumar Address of Applicant :Professor, Department of Computer Applications (MCA), ABES Engineering College, Campus -1,19th KM Stone, Delhi Meerut Express Way NH-9, Ghaziabad, Uttar Pradesh, India -----</p> <p>5)Dr. Kanchan Hans Address of Applicant :Professor, Department of Computer Applications, Galgotias College of Engineering and Technology, Plot- 1, Knowledge Park - II , Greater Noida, 201310, Gautam Buddha Nagar, Uttar Pradesh, India -----</p> <p>6)Dr. Saroj Kumar Nanda Address of Applicant :Associate Professor, School of Computer Engineering, Ajeenkya DY Patil University, Charoli, Lohengaon, Pune, Maharashtra, India 412105 -----</p> <p>7)Dr P D Selvam Address of Applicant :Associate Professor, Department of ECE, Saveetha School of Engineering, SIMATS, Saveetha Nagar, Thandalam, Kancheepuram, Chennai - 602 105, Tamil Nadu, India. -----</p> <p>8)Dr. Sharad Timaji Tajane Address of Applicant :Assistant Professor, Department of Chemistry, M.M. College of Arts, N.M. Institute of Science & HRJ College of Commerce, Bhavan's College (Autonomous), Andheri West Mumbai – 400058, Maharashtra, India -----</p> <p>9)K. Venkatagurunatham Naidu Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Guntur Engineering College, NH-5, Yanamadala, Guntur-522019, Andhra Pradesh, India -----</p> <p>10)Dr. Mani Goyal Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Maharishi Markandeshwar Deemed to be University, Mullana, Ambala, Haryana, India -----</p>
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(57) Abstract :
IoT and AI based Automatic leaf disease detection System in different crop species through image features analysis and one class classifiers using Deep Learning Algorithms Abstract: Agriculture contributes approximately 15% of the total GDP. Continued obstacles to agricultural productivity and the spread of disease lead to substantial economic losses for countries. Hence, early detection of diseases can help reduce the severity of their effects and protect crops from being harmed. The manual diagnosis of diseases is labor-intensive, fraught with the possibility of making mistakes due to human error, and calls for an expert level of knowledge of plant pathogens. Automation, on the other hand, cuts down on both the amount of time and labour needed. In this paper, we give an up-to-date review of the research that has been conducted over the past decade to diagnose illnesses in various crops using machine learning, deep learning, image processing techniques, the Internet of Things, and hyperspectral image analysis. The research has been carried out in order to improve the accuracy with which diseases can be identified and treated. In addition, a variety of different diagnostic approaches for agricultural diseases were compared and contrasted in terms of both their similarities and their differences. This study also investigates the multiple challenges that need to be conquered as well as possible solutions to these challenges. In the following paragraphs, several potential resolutions to these issues will be discussed. In conclusion, the findings of this study give an overview that has the potential to develop into an extremely helpful and significant resource for academics engaged in the detection of crop diseases.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : Automatic Face Recognition and Virtual Assistant through IoT and AI

(51) International classification :G06F 031600, G06Q 300200, G06T 114000, G10L 152200, H04N 090400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Automatic Face Recognition and Virtual Assistant through IoT and AI Abstract: Growing energy cost and demand has motivated many organizations to achieve smart ways to monitor, control, and save energy. Smart automation can reduce costs while still satisfying energy demand. The residential, commercial, and industrial sectors can utilize the technologies of the Internet of Things (IoT) to manage energy consumption better. This paper presents a low-cost, open-source, and reliable Supervisory Control and Data Acquisition (SCADA) system for home monitoring and control system. The presented SCADA system consists of analog sensors, ESP32, Node-RED, and Message Queuing Telemetry Transport (MQTT) through local Wi-Fi to remotely access and control appliances. This system helps the users to monitor various conditions in the home, such as temperature, humidity, pressure, and light intensity. Thus, users can remotely monitor various devices such as lights, fans, heating/cooling systems, make decisions based on the feedback of sensors. One of the most important goals in today's complex environment is to determine the emotions of others by observing their faces. In the near future, all electronic devices will be controlled by a virtual assistant. This will require increased security measures, but will be easy to access. This project will apply facial recognition technologies to safeguard the virtual assistant. The architecture guarantees that only authorised users can issue voice instructions. Consequently, we can safeguard the AI from danger. You can request about the current time, date, and weather, among other things, in a customer service email. This virtual assistant can be used to send emails by just giving it instructions. Also, it may record our chats and keep them confidential. The user who has not yet been authorised to use the service can register for it, but the system administrator must first allow them permission to do so. It can exchange photos and documents in response to spoken directions. We can instruct it to use the camera by providing instructions. Several members of the same household can utilise the digital assistant thanks to facial recognition.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017126 A

(19) INDIA

(22) Date of filing of Application :14/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : Crime rate analysis and prediction using Data Mining and Machine Learning

(51) International classification :A61B 050240, G06N 050400, G06N 200000, G06N 202000, G16B 200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Crime rate analysis and prediction using Data Mining and Machine Learning ABSTRACT Methods for tracking down criminals involve analysing and predicting their behaviour. This method permits the identification and forecasting of crime hotspots. Utilizing the concept of "data mining," we can mine chaotic datasets for hidden insights. It is possible to forecast what information will be recovered in the future by analysing past datasets. Throughout the beginning of time, individuals and societies have struggled against crime. When people commit heinous acts, it lowers a nation's standard of living, economic development, and international standing. For communities to be safe, there must be new perspectives on crime and inventive ways to problem-solving. This is crucial for preventing criminals from entering society. We developed a concept for a system that can analyse, detect, and predict the likelihood of various types of criminal activity in a specific area. Using a range of data mining technologies, this article illustrates how to investigate and predict criminal behaviour.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017152 A

(19) INDIA

(22) Date of filing of Application :14/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : MACHINE LEARNING MODEL FOR SECURED INFORMATION EXCHANGE IN FLYING NETWORK

(51) International classification :G06N 030800, G06N 050000, G06N 200000, G06Q 203200, H04L 415000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT MACHINE LEARNING MODEL FOR SECURED INFORMATION EXCHANGE IN FLYING NETWORK Unmanned aerial vehicles (UAVs) will be an integral part of the next generation wireless communication networks. Their adoption in various communication-based applications is expected to improve coverage and spectral efficiency, as compared to traditional ground-based solutions. However, this new degree of freedom that will be included in the network will also add new challenges. In this context, the machine-learning (ML) framework is expected to provide solutions for the various problems that have already been identified when UAVs are used for communication purposes. In this article, we provide a detailed survey of all relevant research works, in which ML techniques have been used on UAV-based communications for improving various design and functional aspects such as channel modeling, resource management, positioning, and security.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017153 A

(19) INDIA

(22) Date of filing of Application :14/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SYSTEM FOR DETERMINATION OF THYROID STIMULATING HORMONE FROM FRACTAL DIMENSION OF THYROID IMAGE

(51) International classification :A61K 382400, A61P 051400, C07K 145900, G06T 074800, H04W 161400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 TITLE: A SYSTEM FOR DETERMINATION OF THYROID STIMULATING HORMONE FROM FRACTAL DIMENSION OF THYROID IMAGE APPLICANT: SREE BALAJI MEDICAL COLLEGE AND HOSPITAL ABSTRACT The present invention discloses an apparatus for determining Thyroid Stimulating Hormone level from Fractal dimension of thyroid image of a subject under test. The apparatus of the present invention comprising of a. an input device, for inputting fractal dimension of the thyroid image of the subject under test in which the fractal dimension computed using an electrically connected ultra-sonogram; b. a characterized microcontroller electrically connected to the input device configured for characterized processing the fractal dimension of the thyroid image and calculating the Thyroid Stimulating Hormone level of the subject under test by the following characterized step; $TSH=g(fd)=-1.2989 * e(-1.4793 * fd) + 0.3241$ where g is a function of one variable fractal dimension (Error ratio $\epsilon =0.006408$) c. a digital output device for receiving the processed data from the microcontroller and for displaying the calculated Thyroid Stimulating Hormone level values; d. a power supply providing the power to the input, micro controller, ultra-sonogram and the output device.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017156 A

(19) INDIA

(22) Date of filing of Application :14/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SOCIO- ECONOMIC RISKS AND CHALLENGES A MACRO- PERSPECTIVE

(51) International classification :A61B 170600, A61K 380000, A61P 071000, G06F 213100, G06T 050000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
SOCIO- ECONOMIC RISKS AND CHALLENGES A MACRO- PERSPECTIVE ABSTRACT Social risk is an interdisciplinary concept used with various meanings in the social and natural sciences. The article presents some social insights into this concept, particularly concerning the global environmental research project and geography. The particular dimension of social risks and some current methodological aspects regarding models and the leading indicators used in the multidimensional assessment of social risks are analysed at local, regional and national levels. The link between social risks and critical concepts, such as hazard, impact, social vulnerability, resilience, and adaptive capacity, is fascinating.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341017173 A

(19) INDIA

(22) Date of filing of Application :14/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : A SELF DRIVING FOR SOLAR PANEL CLEANING SYSTEM

(51) International classification :B08B 010000, B08B 010400, B08B 030200, F24S 402000, H02S 401000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention relates to a self-driving system for solar panel cleaning robot. The self-driving solar panel cleaning robot comprises a plurality of sensor, a front brush, a Robotic Chassis, a DC Motors, a plurality of wheels, a Rubber Tracks, a pump motor, a water tank a piping, a RF remote, a motor shafts, a mounts & couplings, a supporting frame and central processing unit. The solar panel's surface will be cleaned by the front brush. The front brush is operationally attached to the robotic chassis. The robotic chassis is set up to give the front brush mechanically moveable support. The DC Motors are operationally coupled to the variety of wheels. The numerous wheels are designed to move the robot from one location to another. A new self-driving solar panel cleaning robot that is economical and necessitates less manual labour is provided by the current technology.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : DEVELOPMENT OF BAMBOO FIBER WITH GRAPE STALK CELLULOSE FIBER COMPOSITE MATERIAL USING SMART MANUFACTURING PROCESS FOR HEALTHCARE APPLICATIONS.

(51) International classification :A61B 030000, C08L 231200, D06M 010600, G06T 190000, G16H 406300

(86) International Application No :PCT//
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(87) International Publication No : NA

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Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Bamboo fiber and grape stalk cellulose fiber composite material can be developed by blending both fibers together using a suitable polymer matrix. The resulting composite material can possess enhanced mechanical, thermal, and water resistance properties, making it suitable for a wide range of applications, including construction, automotive, packaging & healthcare applications. The process of developing bamboo fiber with grape stalk cellulose fiber composite material typically involves several steps, including fiber extraction, fiber characterization, blending, and molding.It consist of Fiber Extraction, Fiber Characterization, Blending & Molding.In this research proposal we proposed the smart manufacturing process for developing the composite material with the help of the bamboo fiber & grape stalk fiber.In existing by using the manual method the above combination of the fiber will be produced it contains cost of the product get increased also the surface finish of the product is also good.The main focussed of this research proposal in medical and healthcare applications such as Implantable Devices, Wound Dressings, Tissue Engineering and Drug Delivery Systems It can be used for producing artificial legs & hands for the handicapped persons. The resulting smart manufacturing process can possess enhanced mechanical properties, such as improved tensile strength, stiffness, and impact resistance, as well as improved thermal and water resistance properties. Additionally, the use of renewable and sustainable raw materials, such as bamboo and grape stalks, makes this composite material eco-friendly and cost-effective.

No. of Pages : 16 No. of Claims : 7

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(21) Application No.202344012270 A

(19) INDIA

(22) Date of filing of Application :23/02/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : SPEED LIMIT AUTHENTICATOR USING YOLO

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>(71)Name of Applicant :</p> <p>1)Bannari Amman Institute of Technology Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY ERODE-638 401 TAMIL NADU, INDIA. Erode -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)RAKSHANA A Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY ERODE-638 401 TAMIL NADU, INDIA Erode -----</p> <p>2)VANI J R Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY ERODE - 638 401 TAMIL NADU, INDIA Erode -----</p> <p>3)PAVITHRA M R Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY ERODE - 638 401, TAMIL NADU, INDIA. Erode -----</p> <p>4)DARSHAN L Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY ERODE - 638 401 Erode -----</p> <p>5)SUDHARSHAN B Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY ERODE - 638 401, TAMIL NADU, INDIA. Erode -----</p> <p>6)GOPAL R AP/ISE Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY ERODE - 638 401, TAMIL NADU, INDIA. Erode -----</p> <p>7)Dr.S. UMARANI ASP/IT Address of Applicant :ERODE SENGUNTHAR ENGINEERING COLLEGE, PERUNDUARI. ERODE - PERUNDURAI ROAD, THUDUPPATHI- POST., TAMIL NADU 638057 Erode -----</p> <p>8)Dr. R. MYNAVATHI Professor/IT Address of Applicant :VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY, ERODE-638 012 TAMIL NADU, INDIA. Erode -----</p> <p>9)Dr.S.GOKULRAJ ASP/CSE Address of Applicant :VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY, ERODE-638 012 TAMIL NADU, INDIA. Erode -----</p>
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(57) Abstract :

In the integrated planning and management of traffic, which involves several nonlinear components, such as people, roads, vehicles, weather, and so on, the forecast of traffic accidents plays a crucial role. The conventional approach to extended research cannot reveal the true situation because of noise corruption and insufficient data, which prevents satisfying the prediction's outcome. This paper proposes the integration of YOLO 5 of CNN (Convolutional Neural Network model) algorithm in deep learning and speech limitation device. The CNN algorithm contributes the prediction of light, climatic conditions and detection of barrier in front of vehicle and also the speed limit to be followed in certain limits. And by integrating the speed limitation device the speed control also maintained .So the accidents will be controlled and it let to accident free environment

No. of Pages : 10 No. of Claims : 2

(54) Title of the invention : NEVER-CLOG' MESH DESIGNS FOR CAPTURE AND SEPARATION OF A DISPERSED PHASE FROM A FLOWING FLUID STREAM AND SYSTEMS THEREOF

<p>(51) International classification :H01L0021780000, H01L0021660000, H04L0067040000, A61M0005000000, B08B0003020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ARKADEEP DATTA Address of Applicant :ADVANCED MATERIALS RESEARCH AND APPLICATIONS (AMRA) LABORATORY, DEPARTMENT OF POWER ENGINEERING, JADAVPUR UNIVERSITY, B-73-80, PLOT NO.-8, SALT LAKE BYPASS, LB BLOCK, SECTOR-III, BIDHANNAGAR. WEST BENGAL, PIN-700106. -----</p> <p>2)ARANI MUKHOPADHYAY 3)AMITAVA DATTA 4)RANJAN GANGULY Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)ARKADEEP DATTA Address of Applicant :ADVANCED MATERIALS RESEARCH AND APPLICATIONS (AMRA) LABORATORY, DEPARTMENT OF POWER ENGINEERING, JADAVPUR UNIVERSITY, B-73-80, PLOT NO.-8, SALT LAKE BYPASS, LB BLOCK, SECTOR-III, BIDHANNAGAR. WEST BENGAL, PIN-700106. -----</p> <p>2)ARANI MUKHOPADHYAY Address of Applicant :ADVANCED MATERIALS RESEARCH AND APPLICATIONS (AMRA) LABORATORY, DEPARTMENT OF POWER ENGINEERING, JADAVPUR UNIVERSITY, B-73-80, PLOT NO.-8, SALT LAKE BYPASS, LB BLOCK, SECTOR-III, BIDHANNAGAR. WEST BENGAL, PIN-700106. -----</p> <p>3)AMITAVA DATTA Address of Applicant :ADVANCED MATERIALS RESEARCH AND APPLICATIONS (AMRA) LABORATORY, DEPARTMENT OF POWER ENGINEERING, JADAVPUR UNIVERSITY, B-73-80, PLOT NO.-8, SALT LAKE BYPASS, LB BLOCK, SECTOR-III, BIDHANNAGAR. WEST BENGAL, PIN-700106. -----</p> <p>4)RANJAN GANGULY Address of Applicant :ADVANCED MATERIALS RESEARCH AND APPLICATIONS (AMRA) LABORATORY, DEPARTMENT OF POWER ENGINEERING, JADAVPUR UNIVERSITY, B-73-80, PLOT NO.-8, SALT LAKE BYPASS, LB BLOCK, SECTOR-III, BIDHANNAGAR. WEST BENGAL, PIN-700106. -----</p>
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(57) Abstract :

This invention relates to the design and development methodology for two-phase separation meshes, commonly employed in multiple technology to separate a secondary media (often dispersed in the form of bubbles/droplets or particles encapsulated inside bubbles/droplets) from a primary (continuous) media (e.g., a liquid suspending the gas bubbles or a gas suspending the liquid droplets). Such separation by meshes often degrade in performance owing to clogging up of the mesh pores by the dispersed phase, causing material build-up, higher pressure drops and losing reliability. Using methods derived from the physics of droplet morphology and surface science, methods are developed to design a "never-clog" technology which provides design basis/ dimensions of meshes such that clogging via capillary bridge formation is avoided. Techniques for the development of such meshes as an exemplary scenario, in traditional fog harvesting scenarios to provide an alternative freshwater resource in industrial and atmospheric settings have been described with the help of numerical analysis, theory and experimental methods. Suggestions for further development of better aerodynamics in such "never-clog" meshes have been included thereafter.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231069033 A

(19) INDIA

(22) Date of filing of Application :30/11/2022

(43) Publication Date : 17/03/2023

(54) Title of the invention : Blast Resistant Structure Using Steel Hollow Sections

(51) International classification :E04H0009020000, G06F0030130000, E06B0005120000, E04B0001980000, E04H0009040000

(86) International Application No :PCT//
Filing Date :01/01/1900

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(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Abstract: The number of terrorist attacks increased in the last few years, so the effect of blast loads on structures become an important matter which should be taken into consideration in the design and planning process. Terrorist attacks are exceptional cases and man-made disasters, so blast loads are calculated carefully just like earthquake and wind loads. The objective of this research is to determine the quality of blast load simulation for non-linear dynamic response analysis of trussed structure subjected to blast loads. Blast resistant structure design theories, the enhancement of building security against the effects of explosives in both architectural and structural design process are discussed in this paper. Steel hollow sections are used as structural members those can undergo large nonlinear deformations to absorb blast energy. Essential techniques for increasing the capacity of a structure to provide protection against blast effects are discussed in this paper both with an architectural and structural approach. Keywords: blast load, non-linear dynamic analysis, blast resistant structure.

No. of Pages : 7 No. of Claims : 2

CONTINUED TO PART- 3