

(54) Title of the invention : Quality of Service based Resource Allocation in Cloud Computing using Genetic Algorithm

<p>(51) International classification :H04L0012911000, H04L0012240000, G06F0009500000, G06F0009455000, H04L0012851000</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)Prof.M.James Stephen Address of Applicant :Professor and Principal, Department of CSE, Welfare Institute of Science Technology and Management (WISTM), EC Member, Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code:530003 Visakhapatnam ----- ----- 2)Mr. Prasad Devarasetty 3)Prof. P.V.G.D. Prasad Reddy Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof.M.James Stephen Address of Applicant :Professor and Principal, Department of CSE, Welfare Institute of Science Technology and Management (WISTM), EC Member, Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code:530003 Visakhapatnam ----- ----- 2)Mr. Prasad Devarasetty Address of Applicant :Associate Professor & Head, Department of Computer Science and Engineering, DVR & Dr HS MIC College of Technology, Kanchikacherla, Andhra Pradesh, India. Pin Code: 521180 Kanchikacherla ----- ----- 3)Prof. P.V.G.D. Prasad Reddy Address of Applicant :Senior Professor, Department of CS & SE, A.U. College of Engineering (A), Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code:530003 Visakhapatnam ----- -----</p>
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(57) Abstract :
Cloud Computing has emerged as one of the important fields in the information technology. Cloud offers different types of services to the web applications. The major issue faced by cloud customers is selecting the resources for their application deployment without compromising the quality of service (QoS) requirements. Here we propose an improved optimization algorithm for resource allocation by considering the objectives of minimizing the deployment cost and improving the QoS performance. The proposed algorithm considers different customer QoS requirements and allocates the resources within the given budget. The experimental analysis is conducted on various workloads by deploying into the Amazon Web services. The results demonstrated the efficiency of the proposed algorithm.

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