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(57) Abstract :

Shuffled Differential Evolution-Based Combined Heat and Power Economic Dispatch. Exemplary aspects of the present disclosure are directed towards the Shuffled Differential evolution-based Combined Heat and Power Economic Dispatch. The primary motivation for this invention is to disclose a novel metaheuristic algorithm SDE augments the features of both shuffled frog-leaping algorithm and differential evolution algorithm by employing partitioning and shuffling. In order to verify the effectiveness of the shuffled-differential evolution (SDE) algorithm and also to identify the ideal solution of the CHPED problem, test systems having four units are considered. The outcomes attained from the projected technique are contrasted with the other optimization techniques and found that the projected technique shows remarkable performance in the resolution and the conjunction characteristics.

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