Optimization algorithm game microgrid

To address these challenges, this paper proposes a novel gamification-driven demand response framework for PV-integrated microgrids, designed to simultaneously optimize operational cost,...

As microgrids evolve towards integrating diverse energy sources and accommodating interactive competition among various stakeholders, conventional centralized optimization methods encounter ...

This section conducts master-slave game modeling and optimization for the microgrid system containing renewable energy (wind power generation and photovoltaic power generation), energy storage and ...

cheduling model. The improved algorithm exhibits superior initial solutions and enhanced search capability. In comparison to the original algorithm, the relative errors of the CGQCOA...

Microgrids are increasingly being adopted as alternatives to traditional power transmission networks, necessitating improved performance strategies. Various mathematical optimization techniques are ...

This paper introduces a multi-objective optimization based on a game theory technique for sizing and cost minimization of a grid-connected multi-microgrids. The multi-microgrid system...

Combined with the game analysis method, a multi-level microgrid optimization allocation model based on game theory is proposed for the design and construction of microgrids in future distribution networks.

This study develops a microgrid energy-sharing cooperative game model based on Nash bargaining and proposes a low-carbon operational optimization strategy for multi-microgrid systems under a cooperative ...

The optimal operation of microgrid (MG) is an important problem to attain significant benefits, which mainly improves the cost reduction in energy operation and

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