Microgrid is a novel small-scale system of the centralized electricity for a small-scale community such as villages and commercial area. Microgrid consists of micro-sources like distribution ???

In distributed energy systems, microgrid energy management is essential for efficient integration of renewable energy sources and optimizing the usage of energy. A detailed analysis of microgrid energy management strategies is provided in this work, with an emphasis on cost-effective operation, combining of renewable energy sources, and optimization ???

Urban microgrids have become the main body of energy consumption in modern power systems. To reduce carbon emissions, distributed generators (DGs), such as roof photovoltaics (PVs), ???

[2023-03-15] New publication: H. Li, H. Hui and H. Zhang, "Decentralized Energy Management of Microgrid Based on Blockchain-Empowered Consensus Algorithm with Collusion Prevention," to appear in IEEE Transactions on Sustainable Energy, 2023.

, Hongcai ZHANG gave an invited talk on "Smart Energy in the IoT Era" in the "Smart City and IoT workshop" organized by the IEEE Macau, Macao, China. July 08, 2020, Hongcai ZHANG gave an invited talk on distributed energy resources in Energy Internet in a Webinar organized by the School of Electrical Engineering, Southeast

The 19th editon of the Microgrid Global Innovation Forum, September 24-25 in San Francisco brings together technology innovators, utilities, energy providers, developers and policy makers for focused networking and in-depth networking and information sharing on the cutting edge of microgrids in North America and globally. The emphasis is on

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Microgrid is a novel small-scale system of the centralized electricity for a small-scale community such as villages and commercial area. Microgrid consists of micro-sources like distribution generator, solar and wind units. A microgrid is consummate

With the continuous popularization of information technology in the power system, it is possible to propose protection schemes for smart microgrids. Taking typical line protection as an example, a deep learning protection method based on hollow convolution is proposed to ensure the feasibility of intelligent protection schemes.

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