

This paper presents an improved deep reinforcement learning (DRL) algorithm for solving the optimal dispatch of microgrids under uncertainties. First, a multi-objective interval optimization ...

where C_{mg} is the electricity cost of the microgrid in an optimal dispatch cycle; $P_{L,t}$, $P_{P,t}$, $P_{W,t}$, and $P_{EV,t}$ are the microgrid load power, photovoltaic power, wind power, and electric ...

This paper proposes a microgrid adaptive robust optimal dispatch model with different robust adjustment parameters. The robust equivalent characterization method is used to convert uncertain parameters ...

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Optimal Dispatch of Microgrid based on Multi-object Group Search Algorithm Jiequn Yang School of Shanghai Maritime University, Shanghai 201306, China. ... Based on the premise that the ...

As a core technology of microgrid, optimal dispatching of the microgrid is an important support to deal with the uncertainty of renewable energy and load and ensure the economic and reliable operation of the microgrid [5, ...

The joint optimization model for a microgrid with wind-photovoltaic-load storage in multiple scenarios is discussed and investigated, and the optimal economic power dispatching schemes in multiple ...

that makes the PV inverter in the optimal operation point is first proposed in [8]. Also the optimal dispatch model of distribution systems with PV inverters in the OID mode has also been ...

In recent years, the energy form of microgrids is constantly enriching, while the decentralization requirements of microgrids are constantly developing. Considering the ...

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Optimal dispatch of photovoltaic microgrid

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