

## Information for optimizing microgrid dispatch

What is a multi-objective interval optimization dispatch model for microgrids?

First, a multi-objective interval optimization dispatch (MIOD) model for microgrids is constructed, in which the uncertain power output of wind and photovoltaic (PV) is represented by interval variables. The economic cost, network loss, and branch stability index for microgrids are also optimized.

How to solve economic load dispatch problem in a microgrid?

The main aim is to minimise the overall cost of the microgrid, and a scenario-based method is modelled for the uncertain nature of RESs (PV and wind) and load. The economic load dispatch problem has been solved using two popular metaheuristic algorithms, the Grey-Wolf algorithm and Jaya. Jaya and PSO performed equally well compared to GWO.

How to optimize a microgrid?

The economic cost, network loss, and branch stability index for microgrids are also optimized. The interval optimization is modeled as a Markov decision process (MDP). Then, an improved DRL algorithm called triplet-critics comprehensive experience replay soft actor-critic (TCSAC) is proposed to solve it.

Can deep reinforcement learning solve the optimal dispatch of microgrids under uncertaintes?

This paper presents an improved deep reinforcement learning (DRL) algorithm for solving the optimal dispatch of microgrids under uncertaintes. First, a multi-objective interval optimization dispatch (MIOD) model for microgrids is constructed, in which the uncertain power output of wind and photovoltaic (PV) is represented by interval variables.

What is the optimal scheduling methodology for Microgrid?

An optimal scheduling methodology for MG considering uncertain parameters is proposed along with the existence of an energy storage system. The remaining paper is organised as follows: In Sect. "Optimal operation of microgrid", the optimal operation of MG is discussed.

What is a day-ahead multi-objective microgrid optimization framework?

To exploit the benefits of microgrid system furthermore, this paper firstly proposes a comprehensive day-ahead multi-objective microgrid optimization framework that combines forecasting technology, demand side management (DSM) with economic and environmental dispatch (EED) together.



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