Microgrid Learning Methods

5 · By considering the recommendations for using machine learning techniques in adaptive protection, this method offers a robust and reliable solution for MG protection, despite some limitations.

As a method with generalization ability, meta-learning can compensate for this deficiency. Therefore, this paper introduces a microgrid scheduling strategy based on RL and ...

DRL is an interactive, reward-driven learning framework for the problems of sequential decisions. The objective is to find an intelligent decision policy to get the maximum rewards. Ref. [18] ...

Multi-virtual agents are used for exploring the relationship of uncertainties and corresponding actions in different microgrid environments in parallel. With the help of a deep neural network, ...

AC microgrids are becoming increasingly important for providing reliable and sustainable power to communities. However, the evolution of distribution systems into microgrids has changed the ...

By establishing a microgrid environment simulator encompassing HVAC, PV, and ES systems, we substantiated that the proposed model-based reinforcement learning method can be successfully adopted for both microgrid ...

Fault detection, classification and location methods are reviewed for microgrid application and different methods applied for both fault location and fault classification are being classified by ...

Coordinately scheduling multi-energy in a power system has attracted great research attention because of the benefits like improved energy utilization efficiency, lower system cost and ...

Learning Method for Microgrid Optimization Scheduling. Sustainability 2023, 15, 9235. ... The application of Q-learning to microgrid optimization was the first proposal [20-22], but the ...

There are different machine learning methods available in the literature that are applied to single microgrid cases. In this line, the cluster microgrids concept is a new ...

In [139], a model-free method for DC microgrid systems is proposed by employing Q-learning and Q-network, two reinforcement learning methods. By interacting with microgrids, this strategy ...

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