# Microgrid Reinforcement Learning





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[Model-Free Reinforcement Learning in Microgrid Control: A Review]

Abstract: The global shift toward distributed energy resources (DERs) has accelerated the deployment of microgrids (MGs), introducing unprecedented control challenges that traditional ...

[Energy-Aware Swarm Robotics in Smart Microgrids Using Quantum ...]

The integration of autonomous robots with intelligent electrical systems introduces complex energy management challenges, particularly as microgrids increasingly incorporate ...





[Multiagent Reinforcement Learning in Enhancing Resilience of ...]

Given the urgent need to enhance the resilience of microgrids under extreme weather conditions and the limitations in adaptability of traditional optimization-based strategies, this study proposes an EMS ...

[Reinforcement learning algorithms in AC, DC, and hybrid microgrids]

In-depth exploration of reinforcement learning algorithms applied to various microgrid architectures. Identification of challenges and research gaps within realm of RL in microgrids. ...






[Designing an optimal microgrid control system using deep ...]

Deep Reinforcement Learning (DRL), a subset of artificial intelligence, holds the potential to revolutionize the control and management of microgrids. This systematic review aims to provide a ...

[Using Reinforcement Learning to Make Smart Energy Storage ...]

In [10] offered A fuzzy Q learning method based on genetic algorithms for energy management in smart grids and in [11] offer Smart microgrid electricity flow management using multi-agent reinforcement ...





[Enhancing Hybrid Microgrid Dynamics Using an Agent-Based ...]

This paper investigates the performance of a grid-connected inverter in a hybrid microgrid and compares different controllers, including Artificial Neural Network (ANN), Adaptive Neuro-Fuzzy ...

[A systematic review of reinforcement learning-based control for ]

This article provides systematic review to follow a thorough evaluation of the present status of research on reinforcement learning (RL)-based microgrid control. The description of ...






[Adaptive reinforcement learning framework for sustainable microgrid ]

This study presents a simulation-based and adaptive reinforcement learning (RL)-based energy management framework that addresses persistent inefficiencies in coordinating diverse energy ...

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