

This review includes various combinations of integrated systems, integration schemes, integration requirements, microgrid communication challenges, as well as artificial intelligence used ...

These AI models maximize the use of renewable energy, reduce wastage, and improve microgrid resilience and responsiveness to supply and demand fluctuations. Experiments ...

AI-driven solutions, particularly DRL, provide adaptive, autonomous, and data-driven mechanisms for real-time decision-making and predictive control within microgrids.

Reviews microgrid architecture, key components, and control strategies. Highlights various AI models along with their challenges and advantages. Presents AI applications in sizing, control, ...

This paper focuses on the potential advantages and technical challenges offered by the integration of Artificial Intelligence (AI) tools in designing the next generations of EMS in future ...

This research investigates implementing and optimizing microgrid energy management systems (EMS) utilizing artificial intelligence (AI).

AI facilitates real-time decision-making and adaptive control through intelligent data-driven approaches, thereby improving microgrid efficiency and resilience.

Technology and science have supported and faced this challenge in energy production schemes, especially in intelligent electrical microgrids.

AI provides quick computing of enormous in capacity configurations, amounts microgrid to.

Recently, artificial intelligence (AI) techniques have received wide attention in smart grid and microgrid studies. This special issue is proposed to promote the applications of AI techniques in microgrid.



# Microgrid and Artificial Intelligence

Web: <https://upstreamjhb.co.za>

