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Title: Intelligent transformation and smart microgrid

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This review critically examines the integration of Artificial Intelligence (AI) and Deep Reinforcement Learning (DRL) into smart microgrid platforms, focusing on their role in optimizing sustainable energy ...

The integration of AI in microgrid control aligns seamlessly with the broader vision of smart cities. In urban environments, where energy demands are high and resources are often constrained, ...

This study underscores the importance of integrated microgrid planning for sustainable and resilient urban transformation amid environmental and societal challenges.

Historically all power flowed from transmission to distribution, distributed generation is creating potential bi-directional power flows and forcing utilities to implement more intelligent distribution networks.

Following the fourth industrial revolution and subsequent developments in information and communication technology, applying intelligent techniques in microgrid is gaining popularity in ...

Smart MicroGrids (SMGs) can be seen as a promising option when it comes to addressing the urgent need for sustainable transition in electric systems from the current fossil fuel-based centralised ...

In this paper, we present an open architecture that uses machine learning algorithms at the edge to predict energy consumption and production for energy management in smart microgrids.

Abstract: The idea of changing our energy system from a hierarchical design into a set of nearly independent microgrids becomes feasible with the availability of small renewable energy generators.

The use of microgrids has emerged as a potential scenario in this production process, especially with the application of smart technologies ...



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