Title: Microgrid Neural Network Control System
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dynamic adjustment of these vir-tual parameters promises robust solution with stable frequency. This paper proposes a method to adapt t. e inertia, damping, and droop parameters dynamically through ...

In recent research, various methods have been proposed for controlling the micro-grids, especially voltage and frequency control. This study introduces a microgrid system, an overview of...

In islanded microgrids, voltage and frequency deviations are critical indicators of system safety. Effectively managing these deviations to achieve a dynamic balance between generation and ...

This study proposes an artificial neural network-based hierarchical intelligent control framework for a fully renewable hybrid microgrid powering a residential villa in Jeddah, Saudi Arabia.

In this paper, a two-step controller is designed for the DC microgrid using a combination of the deep neural network (DNN) and exponential reaching law-based global terminal sliding mode ...

In summary, the integration of DNN-based predictive control represents a significant advancement in microgrid management, providing a solution to address performance challenges and ...

To address this issue, this article proposes a scalable neural network control strategy for nonlinear DCmGs with CPLs, enabling seamless PnP operations of DGUs. A radial basis function neural ...

This paper introduces a novel control strategy to optimise the load frequency model in a microgrid (MG) with vehicle-to-grid interactions using Particle Swarm Optimisation - deep Artificial ...

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