

This paper presents an intelligent prediction framework that integrates a Generative Adversarial Network (GAN) with the Ninja Optimization Algorithm (NOA) to accurately model and ...

The origin, development and characteristics of microgrid technology are summarized in this paper. This paper mainly introduces the protection technology and control technology in the ...

The paper discusses the effectiveness of the Microgrid in a distribution system and presents a comprehensive review of the Microgrid. Various architecture and control schemes of the Microgrid ...

In this paper, we study and experimentally analyse the performance of a Gaussian-process regression forecasting and model predictive control algorithm in the context of interconnected microgrids.

This in-depth research is aimed at upgrading the appropriate power converter configuration to enhance sustainable growth in power quality, stability, and control over power sharing.

Microgrids are a key technique for applying clean and renewable energy. The operation optimization of microgrids has become an important research field. This paper reviews the ...

This comprehensive review has explored the key challenges associated with microgrid architectures, their mitigation approaches, and the potential future directions in this rapidly evolving ...

ating with EVs. The work aims to enhance voltage stability in a DC microgrid and the electric vehicle charging using GaN devices in the converter. This is done by developing a DC microgrid with better ...

microgrid concept, classification and control strategies. Besides, various prospective issues and challenges of microgrid implementation are highlighted and explained. Finally, the important aspects ...

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