Multi-source fusion microgrid integration

Aiming at the difficulty of evaluating the status of power equipment and high maintenance costs in the actual operation of the power grid, a power equipment status evaluation method based on multi ...

Microgrids enhance the stability and reliability of electrical networks by integrating distributed energy resources (DERs), which include RES, loads and battery energy storage systems ...

This section validates the proposed microgrid reliability analysis model by a case study, which covers scenario description, multi-source data cleaning, data feature fusion, state prediction ...

The effective integration of data from different platforms remains a significant challenge at present. Consequently, this paper proposes a multi-source heterogeneous data fusion method for ...

In this paper, we comprehensively survey the research works of electric power information fusion methods, especially the research progress of machine learning and deep learning ...

Through empirical research and case analysis, this study verifies the effectiveness of multi-source data fusion in improving power system operating efficiency and economic benefits.

Based on the analysis of the current technology of multi-source information fusion, this paper proposes a novel approach, which considers two aspects: the interoperability of multi-source ...

In this study, an edge intelligence-based PD-IoT multi-source data processing and fusion method is proposed to solve the problems of confusing storage and insufficient fusion computing ...

Abstract To enhance the safety of microgrid switching and the identification of misoperations, we propose Time-Synchronized Misoperation Recognition (TS-MR), a method tailored to switching ...

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