AC Hybrid Microgrid Fault Detection

The proposed work combines the AC and DC sub-grids into a hybrid microgrid system, thus eliminating redundancy, ensuring better FD coordination, and reducing detection time.

Distributed uniform Fault Detection (FD) and control techniques are presented for improving protection in Hybrid Micro Grids (HMG). In this regard, methods for FD and controller ...

This paper focuses on the fault analysis and intelligent detection and diagnosis of faults in a hybrid AC/DC microgrid. The possibility of detecting and locating faults rapidly enables the grid ...

This paper introduces a DC-link fault detection and synchronization control strategy for grid-forming inverters in hybrid DC/AC microgrids, aiming to bolster system stability and reliability.

This paper proposes a novel approach for AC-side fault detection and classification in hybrid AC/DC microgrids using Discrete Wavelet Transform (DWT).

To address the necessity of a comprehensive method for fault detection and classification in AC microgrids, this section presents the new formulation proposed in this paper, as well as the ...

Abstract: With the development of green energy, AC/DC microgrids become popular for integrating more renewable energy sources. However, comparing to traditional AC distribution grid, the grid fault ...

This paper presents a novel framework that integrates Shannon entropy and Pearson correlation analysis to address these issues for rapid fault detection and classification across AC/DC subgrids of ...

To ensure the delivery of reliable and high-quality energy to end consumers while alleviating stress on the utility grid, this paper introduces a novel methodology for the efficient ...

The present paper proposes a comprehensive protection plan for hybrid microgrids. In response to the structural uncertainty of microgrids, the system relies on adaptive protection using ...

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