Smart microgrid system detection

We present a novel two-tiered strategy employing data-driven and artificial intelligence methodologies. This approach is designed to detect and mitigate False-Data Injection (FDI) attacks, ...

Methods for attack detection and mitigation are identified and categorized based on microgrid modelling approaches and control objectives. Finally, emerging defence technologies and ...

Algorithms, approaches, and theories of data mining to solve the microgrid and smart-grid security problems. Manuscript Deadline: May 29, 2024. Please review the Manuscript ...

The combination of blockchain and wavelet transform methodologies can provide a robust, multi-layered approach to cyber-security in smart DC microgrids, ensuring both real-time detection ...

The objective of this paper is to develop an anomaly detection framework for the smart microgrid system at MCAS Miramar to enhance its cyber-resilience. We implement predictive analytics using machine ...

A novel multi-layer cybersecurity framework that combines blockchain authentication, AI-driven anomaly detection, and system self-healing for smart microgrids. Real-time threat mitigation ...

ABSTRACT The significant prevalence of distributed energy resources in microgrids due to their unique characteristics and activities creates protection issues. This paper introduces fault ...

To investigate the effectiveness of the NSM security monitoring platform, evaluate the proposed detection schemes, and observe the impact of cyberattacks on the microgrid operation, several ...

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