

Abstract In distribution automation systems, detecting terminal abnormal behaviors is crucial for stability and reliability. Traditional methods struggle with insufficient feature extraction and ...

As smart grid development advances, anomaly detection and verification of distribution network topology have become crucial for ensuring reliable power supply.

This validates the theory that the proposed model has a high level of anomaly detection in practical applications, can assist in the automatic identification of and response to power...

Motivated by these issues, we propose a distributed system anomaly detection theory based on spatio-temporal causal inference, embodied in our Integrated Causal Anomaly Detection ...

Validation of the ensemble's effectiveness is attained through a case study that is grounded on actual operation data from a specific region's distribution network protection system. ...

Anomaly detection in distribution networks is crucial for ensuring the stable operation of power systems. To improve the accuracy and efficiency of anomaly identification, we designed a distribution network ...

In this paper, based on the RMT, we propose a fully data-driven approach to realize anomaly detection and location in distribution network. It merges anomaly detection and location functionalities by using ...

The early anomaly detection and localisation approach is driven by the measurement data from the SCADA system in a distribution network. It is sensitive to the variation of the data ...

Review and categorizing conventional ML techniques commonly used in the literature for the purpose of anomaly detection, classification and localization (AD-C-L) in the distribution network.

To address the challenge of anomaly detection in distribution network data, this paper proposes a detection method based on a parallel network architecture integrating GraphSAGE and CNN-GRU.

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