Base station wind power supply performance abnormality

This paper deeply analyzes the distribution characteristics of abnormal data and proposes a novel method for abnormal data cleaning based on a classification processing framework.

This paper introduces a monitoring method based on state curves and includes a study that analyzes five types of state curves, namely, wind speed-power, wind speed-rotor speed, wind ...

Wind power anomaly data detection based on unsupervised methods To cite this article: Hao Zhang et al 2024 J. Phys.: Conf. Ser. 2728 012033 View the article online for updates and enhancements.

Extreme weather events can severely affect the operation and power generation of wind farms and threaten the stability and safety of grids with high penetration of renewable energy. ...

ata based on wind power curve (WPC) images. The abnormal data are cat-egorized into three types, negative points, scattered points, and stacked points. The proposed algorithm includes three steps, ...

For the difficulty of operation and maintenance of wind turbines, anomaly detection technology was derived to identify faults early. In the research of power cu.

Considering the negative resistance effect of power electronic equipment, unstable resonance problems may occur between wind farms and converter stations. This paper focuses on the ...

Accurate and credible operation data sets of wind and solar power stations are the basis of many research works. However, such data sets often contain abnormal data due to failure, ...

The performance of the WEP during a fault condition is different from that of a traditional generating station [1]. Therefore, the protection considerations for a large WEP will be different than those of a ...

In this study, we propose a new abnormality detection and prediction technique based on heterogeneous signals and information, such as output power signals and wind tur-bines downtime ...

Web: https://rocksteadyfloors.co.za