

Title: Wind turbine early warning system

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In order to resolve the contradiction between the rapid growth of wind turbines installed capacity and the lagging operation and maintenance technology, this article uses ...

Building on the above findings, a monitoring and early warning platform for the wind turbine transmission system was developed, integrating digital twin visualization with intelligent ...

However, the volatility, imbalance, and low-value density of wind turbine operation data make accurate fault warnings challenging. In this study, a data-extraction and balancing method ...

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The Wind Event Warning System (WEWS) is high-energy Doppler LIDAR sensor that measures approaching changes of wind such as an oncoming variation of wind speed that will change ...

In this paper, a two-stage cascaded high-precision fault early warning method based on machine learning (ML) and data graphization is proposed.

A monitoring alarm system for wind turbines in power plants that provides real-time fault detection and quick fault localization to improve turbine reliability and uptime.

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This is particularly true for wind turbine systems for which unexpected failures not only demand costly repairs but also cause long downtime. Motivated by this need, we present an accumulation method ...

In order to resolve the contradiction between the rapid growth of wind turbines installed capacity and the lagging operation and maintenance technology, this article uses supervisory control ...

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