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Title: Wind power generation capacity prediction method

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In order to mitigate this uncertainty, it is crucial to improve the accuracy of generation forecasting methods for wind energy. This review explores various wind power forecasting methods, ...

This paper proposes a short-term wind power prediction method based on data feature clustering and correlation analysis according to the characteristics of randomness and intermittence ...

As countries focus more on renewable energy, especially wind power, predicting wind power output accurately is crucial for managing power grids and saving costs. This paper presents a ...

Wind generation is a direct function of wind speed and, in contrast to conventional generation systems, is not easily dispatchable, so fluctuations of wind generation require power substitution from other ...

Therefore, this paper takes into account the influence of wind speed, wind direction, temperature, and humidity, and proposes a wind power prediction method based on CNN-LSTM.

This paper proposed a wind power prediction model based on the improved Long Short-Term Memory (LSTM) network to fit the nonlinearity between data variables and wind power.

In order to accurately judge the wind farm failure scenario and further analyze the specific operating conditions of wind turbines arranged in the wind farm and the capacity loss caused by ...

This paper summarizes the contribution of the current advanced wind power forecasting technology and delineates the key advantages and disadvantages of various wind power forecasting ...

Currently, the major wind power prediction system related to power system schedule is based on short-term predictions. The existing short-term wind power prediction methods are mainly ...

We first propose a novel clustering technique to group wind turbines and develop deterministic wind power prediction models based on LSTM within each cluster. The prediction ...

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