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In this paper, we propose a deep-learning based ultra-short-term solar power prediction with data reconstruction. We decompose the data for the prediction to facilitate extensive exploration of the ...

In this paper, a novel DBN modeling approach for solar power generation forecasting in solar plants was proposed by fusing multi-source information, including sensor data, operational ...

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He brings with him extensive research and modeling experience in electricity system analysis, including residential demand, solar PV potential, and renewable integration. Mr. Zhang is highly skilled in ...

This paper proposes a short-term PV power forecasting method using K-means clustering, ensemble learning (EL), a feature rise-dimensional (FRD) approach, and quantile regression (QR) to ...

This research article addresses the imperative need for precise solar power generation forecasting to efficiently integrate solar energy into existing power grids.

In this paper, it proposes testing technology and research in order to evaluate the power quality for large-scale photovoltaic power station according to latest photovoltaic standards.

By combining continuous radiance images measured by geostationary satellite and an advanced recurrent neural network, we develop a nowcasting algorithm for predicting cloud fraction ...

Aiming at the problems of frequent failures of photovoltaic power generation system, large amount of operating data and difficult to obtain fault samples, we propose an unsupervised fault ...

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