

Title: Wind power generation scenario

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We proposed a novel wind power scenario generation method that integrates the generalized dynamic factor model (GDFM) with a generative adversarial network (GAN).

Wind power generation is different from traditional power generation in which wind power output is highly stochastic and spatio-temporally dependent.

This study proposes a methodology that creates wind power scenarios, considering temporal and spatial correlations, which improves the ...

This paper proposes a novel distribution-free hybrid approach that combines multivariate Vector Autoregressive Moving Average (VARMA) and Copula models to generate wind power ...

Subsequently, applications of the scenario generation methods in power systems are discussed to identify the properties of these methods. Further, a comparative analysis and discussion ...

Based on an improved generative adversarial network algorithm, this paper generates single-site and multi-site scenarios for wind power generation data. The temporal and spatial correlations of the ...

To address this issue, this paper presents a historical meteorological data-driven regional wind power scenario generation approach, which can generate time-series regional wind power ...

Numerical tests on the combined GDFM-GAN approach demonstrate performance improvements over competing alternatives in synthesizing wind power scenarios from Australia.

A model for generating wind power production scenarios based on open data from AEMO - [ElisNycander/wind_scenarios](#)

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