

In this paper, a data-driven artificial intelligence approach is presented to generate wind power output scenarios based on generative adversarial networks (GANs).

In this work, we propose a wind power scenario generation framework based on the conditional improved Wasserstein generative adversarial network (WGAN).

The randomness and uncertainty of meteorological factors lead to the results of traditional scenario generation methods not having the ability to accurately reflect their uncertainty. This article ...

To elucidate these dynamics, we explore a large data set of scenarios simulated from the Global Change Analysis Model (GCAM), and use scenario discovery to identify the most significant ...

Explore scenario analysis for wind power projects with deep insights for wind turbine financial analysts.

A comprehensive analysis of the advantages and disadvantages of wind power SG methods is provided to serve as a guideline for power systems with integrated wind power.

Abstract-- This work proposes a method of wind farm scenario generation to support real-time optimization tools and presents key findings therein.

This paper utilizes the LSTM-GAN model to capture the uncertainty of wind power and generate realistic forecast scenarios, which can learn unknown data distributions through ...

In the literature, a framework for the economic performance assessment of wind-power systems has been proposed. Furthermore, in another contribution, the random discontinuities of ...

First, based on GAN theory, the original wind farm output dataset is augmented to generate a large number of wind farm output scenarios, and the rationality of the wind power output scenario set is ...

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