



statistical modeling. Unlike existing GAN-based wind power data ...

Wind speed is the key factor of wind power generation. With the increase of the proportion of wind power generation in total power generation, the accurate prediction of wind speeds plays an ...

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Corresponding author: 293596479@qq . Abstract. Under the background of increasing renewable energy penetration and rigid demand for midterm generation planning, the accurate expression of wind power uncertainty becomes more and more important.

With regard to the wind power scenario generation, while the potential benefits of wind-energy-to-wind-power physical process are clear, a major barrier in its implementation comes from the uncertainty of meteorological variable prediction (especially wind speed) [37]. Therefore, data-driven approaches using GAN and its improved variants were developed to ...

The development and utilization of new wind power energy can effectively alleviate the human survival crisis caused by the shortage of coal resources. The article adopts the development status of wind power new energy, and the current development status of grid-connected technology is explored, hoping to help our country's sustainable development.

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A short-term wind power prediction model based on BiLSTM-CNN-WGAN-GP (LCWGAN-GP) is proposed in this paper, aiming at the problems of instability and low prediction accuracy of short-term wind power prediction. Firstly, the original wind energy data are decomposed into subsequences of natural mode functions with different frequencies by using ...

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