

Simple strokes of wind power and photovoltaic power generation

What is wind-photovoltaic combined power generation forecasting model based on multi-task learning?

Conclusion This paper introduces a wind-photovoltaic combined power generation forecasting model based on multi-task learning. The proposed model takes into account the spatio-temporal correlation between wind and photovoltaic power. The MIC method is firstly used to analyze the correlation between wind and photovoltaic power.

Are wind power and photovoltaic output stochastic?

Firstly, wind power and photovoltaic output are regarded as a stochastic process, and the time autocorrelation models of wind power and photovoltaic output are constructed based on a one-dimensional Markov chain and hybrid Copula function.

Do wind power and photovoltaic output have a time correlation?

Firstly, based on a one-dimensional Markov chain model and a static mixed Copula function, wind power and photovoltaic output models were established, effectively characterizing the time correlation of each series of wind and solar output.

Can wind and photovoltaic power generation be combined?

However, the integration of wind and photovoltaic power generation through combined forecasting offers a comprehensive approach that takes into account their coupling relationship. By establishing suitable models and algorithms, accurate power generation forecasts for both energy sources can be achieved.

Is there a spatial correlation between wind and photovoltaic power output?

The data simulated through this model can effectively reflect the spatial correlation between wind and photovoltaic power output and the dynamic changes in this correlation. A dynamic spatiotemporal correlation model for wind and photovoltaic power output was established by coupling the two sub-models mentioned above.

How to solve simulation output sequences of wind power and photovoltaic power output?

According to the respective probability distributions of wind power and photovoltaic power output obtained above, solve the respective simulation output sequences of wind power and photovoltaic power output by using the sequences A_t , B_t obtained in the previous step and the Eq. (20)

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