

# Solar container field volume prediction method

The purpose of this study is to improve the prediction of container volumes in Busan ports by applying external variables and time-series data decomposition methods to deep learning prediction models. ...

This study aims to develop a prediction model for predicting the future container volume of Busan Port and focuses on improving port productivity and making improved decision-making by port ...

To anticipate the future impact of cloud displacements on the energy generated by solar facilities, conventional modeling methods rely on numerical weather prediction or physical models, ...

The proposed model explores external variables that are related to container volume, combining port volume time-series decomposition with external variables and deep learning-based ...

Therefore, the proposed method for predicting wind pressure spatiotemporal fields on long-span flexible photovoltaic structures offers significant potential for optimizing the spatial ...

It is necessary to accurately predict the output power of the array for any flight state. Because of the uneven solar radiation received by the solar array, the traditional model based on ...

A substantial body of literature on solar energy forecasting has been established in recent years. Voyant et al. (2017) outlined various ML methods for solar energy forecasting, highlighting the advancement ...

(DOI: 10.3390/APP11198995) The purpose of this study is to improve the prediction of container volumes in Busan ports by applying external variables and time-series data decomposition ...

With the challenge of increasing global carbon emissions and climate change, the importance of solar energy as a clean energy source is becoming more pronounced. Accurate solar ...

Simulation of the radiation distribution within the container allows modelling and predicting the required solar exposure time based on the average radiation intensity and its uniformity ...

Effective prediction of ship arrivals should provide the estimated delay or advance of arrival ships with greater accuracy, and improve the performance of container terminal operations. ...

It obtains the solar flux distribution by generating, tracking and counting massive sunrays. In comparison to the convolution method, MCRT method can directly simulate the optical ...

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The study improves container volume prediction at Busan port using deep learning and time-series decomposition methods. External variables like GDP and CPI enhance prediction accuracy over ...

Results show that the proposed method can increase prediction accuracy of electric load and photovoltaic solar power by 16.84% and 10.57%, respectively, with narrow fluctuations and ...

This study aims to systematically investigate the prediction of the spatiotemporal wind pressure field on the surface of flexible photovoltaic structures based on a limited number of ...

The proposed prediction method can accurately predict the shipboard solar irradiation at the period of significant disturbance, and provide effective technical support for the economic ...

The container volume prediction at Busan port in Korea, indicated that the development of the port is closely related to national competitiveness and in fact, strengthens it; hence, accurate prediction of ...

Container terminal operators must balance external truck arrivals to the terminal and the prompt availability of yard resources. More accurate prediction of delivery truck arrivals is a ...

In wind prediction field, Song et al. [260] proposed a weight-optimization-based output ensemble method; Jiang and Liu [261] proposed a nonlinear weight-based output ensemble method.

Abstract Solar power plants offer a healthy substitute for traditional thermal power plants. However, the management and quality of power in the current energy grids are threatened by ...

In this research, three distinct solar flare prediction strategies utilizing the photospheric magnetic field parameter-based multivariate time series dataset are evaluated, with a focus on data ...

Therefore, it becomes relevant to the existence of solutions for the prediction of solar photovoltaic energy generation, enabling increased security in the generation and distribution of ...



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