Solar power generation integrated machine model

This paper proposes a model called X-LSTM-EO, which integrates explainable artificial intelligence (XAI), long short-term memory ...

You can use this model to evaluate the operational characteristics of producing green hydrogen over a 7-day period by power from a solar ...

This research explores and investigates the use of Machine Learning (ML) to study, analyse, predict and visualize solar power generation. Using real time data f

This research proposes a novel AI-enhanced hybrid solar energy framework integrating spatio-temporal forecasting, adaptive ...

The construction of a drive mechanism for TP power generation in a contemporary metropolis, the modelling of a solar energy ...

This research delves into a comparative analysis of two machine learning models, specifically the Light Gradient Boosting ...

We explore the influence of the Air Quality Index and weather features on solar energy generation, employing advanced Machine Learning and Deep Learning techniques. ...

The integration of XAI with machine learning and deep learning technologies has markedly advanced the field of solar power generation. The proposed SPXAI model effectively tackles ...

The findings highlight the effectiveness of the hybrid machine learning model in accurately forecasting solar power generation. Future research directions could include ...

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This study proposes a hybrid solar power system aided by AI that incorporates high-performance solar tracking, intelligent PV technologies, ...

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