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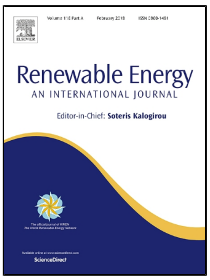

Short-term Photovoltaic Solar Power Forecasting Using a Hybrid Wavelet-PSO-SVM Model Based on SCADA and Meteorological Information

Abinet Tesfaye Eseye, Jianhua Zhang, Dehua Zheng

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- PV power is always associated with uncertainties due to solar irradiation & other weather parameters intermittency.
- A hybrid Wavelet-PSO-SVM forecasting model based on SCADA and Meteorological information is proposed.
- Daily average MAPE of 4.22% and NMAE of 0.4% have been obtained by the proposed model.
- The proposed model has resulted in outperformed accuracy as compared to other seven forecasting models, while the average computation time is lower than 15 seconds.

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