Zhang Xingxu Solar Power Generation

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Predicting Solar Energy Generation with Machine Learning based on ...

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

Zhang, X., Cao, R.X., etc. (2010) Solar PV grid-connected power

In this paper, a multi-scale model of grid connected PV distributed generation system is proposed based on the mathematical model of grid-connected distributed PV power generation.

Power generation forecasting for solar plants based on Dynamic ...

In this paper, a novel DBN modeling approach for solar power generation forecasting in solar plants was proposed by fusing multi-source information, including sensor data, operational ...

Ultra-short-term Power Prediction of Photovoltaic based on CNN-AM

The power of photovoltaic power generation is affected by a variety of factors such as weather, radiation and temperature, exhibit a high degree of randomness and uncertainty. To address this problem, this ...

Xingxu Zhang's research works , Northwestern Polytechnical ...

Inspired by the ubiquitous lateral-line system of fish which plays an essential role in flow sensing and object detection, this paper presents a new sensor consisting of a radial field

Unveiling the potential of flexible perovskite photovoltaics: From lab

Flexible perovskite-based single-junction and tandem solar cells have achieved power conversion efficiencies (PCEs) exceeding 25% and 29%, respectivel...

Accelerating the energy transition towards

photovoltaic and wind in

Our results highlight the importance of upgrading power systems by building energy storage, expanding transmission capacity and adjusting power load at the demand side to reduce the economic cost of ...

Zhu XINGXU , Shandong University, Jinan , SDU , insitute of electrical

In this paper, a scalable distributed online algorithm is proposed for solving optimal power flow (OPF) in real time. The operation of distribution systems can be continuously driven towards

Xingxu Zhu , IEEE Xplore Author Details

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Zhang Xingxu received the B.E. degree in mechanical engineering and the M.E. and Ph.D. degrees in mechatronics engineering from the School of Mechatronics Engineering, Harbin Institute of ...

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