



Advances in Smart Grid Power Systems: Uncertainty, Resilience, and Interdependence

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Message from the Guest Editor

Dear Colleagues,

This Special Issue seeks to collate, connect, and address uncertainty, resilience, and interdependence within and between infrastructures, with a focus on power grids. Topics of interest include, but are not limited to:

- Inverter-based resources and grid-forming technology;
- Renewables penetration, volatility, and system stability;
- Supply chain and inventory management;
- Extreme events modeling and electromagnetic modeling;
- Structural health estimation and monitoring;
- Multiphysics analysis;
- Multi time scale modeling;
- Supply chain issues for critical components;
- Blockchain technologies for smart grid economics;
- Black start modeling and practices;
- Energy storage and degradation modeling;
- Physics-based data science and machine learning methods.

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Guest Editor





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Message from the Editor-in-Chief

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