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

Guest Editor:

**Dr. Vaidyanathan  
Krishnamurthy**

Center for Electromechanics, The  
University of Texas at Austin,  
Austin, TX, USA

Deadline for manuscript  
submissions:

**closed (9 August 2023)**

### 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.

Dr. Vaidyanathan Krishnamurthy  
*Guest Editor*



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# Special Issue



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### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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