

## Special Issue

# Challenges and Innovations in Stability and Control of Power Systems

### Message from the Guest Editor

Modern power systems are becoming more complex, making it increasingly challenging to maintain system control and stability due to the rising integration of electric vehicles, distributed generation, and renewable energy sources. The stochastic character of renewable resources and the decreased system inertia brought about by the replacement of traditional synchronous generators have complicated traditional stability notions like rotor angle, frequency, and voltage stability. Topics of interest for publication include, but are not limited to, the following:

- power system modelling and simulation
- power system stability and control
- transient stability, voltage stability, and frequency stability
- wide-area monitoring systems (WAMS)
- renewable energy integration
- grid resilience and smart grid technologies
- grid modernization and machine learning for grid stability
- real-time control and monitoring
- power system dynamics
- microgrids and distributed generation
- inverter-based resources (IBRs)
- FACTS and HVDC technologies

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### Guest Editor

Dr. Md. Abdus Salam

School of Engineering, University of Bridgeport, 126 Park Avenue,  
Bridgeport, CT 06604, USA

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### Deadline for manuscript submissions

closed (10 June 2026)



## Energies

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*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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### 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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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

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