



energies



an Open Access Journal by MDPI

Hybrid Modeling, Stability Analysis, and Control Design of Future Microgrids with Distributed Renewable Energy Sources Integration

Guest Editors:

Dr. Zhijian Hu

School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Dr. Renjie Ma

State Key Laboratory of Robotics and Systems, Harbin Institute of Technology, Harbin 150001, China

Dr. Shumei Zhang

School of Electrical and Information Engineering, Tianjin University, No. 135, Yaguan Road, Tianjin, China

Message from the Guest Editors

This Special Issue encourages researchers to advance the state-of-the-art studies from hybrid modeling, stability analysis, and control design perspectives. The research topics include but are not limited to the following:

- Advanced sustainable energy development
- Hybrid modeling of microgrids
- Stability analysis of hybrid energy systems
- Data-driven monitoring and control for smart grids
- Autonomous power inspection robotics
- Operation and protection of solar PV system
- Integration of new energy in urban design
- Consumer behavior in new energy
- Fault detection and diagnosis of power grid equipment
- Condition monitoring and performance evaluation

Deadline for manuscript submissions:

30 December 2024



mdpi.com/si/184900

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)