



*energies*



an Open Access Journal by MDPI

## Intelligent Control and Optimization Technologies in Sustainable Smart Grids: Networked Microgrids and Distributed Systems

Guest Editor:

**Dr. Guannan Lou**

School of Electrical Engineering,  
Southeast University, Nanjing  
210096, China

Deadline for manuscript  
submissions:

**closed (3 April 2023)**

### Message from the Guest Editor

Dear Colleagues,

Economic factors, carbon neutrality and the increasing penetration of distributed generations (DGs) are pushing the incumbent distributed system toward a more intelligent and sustainable future. Microgrid clusters are considered to be important carriers that facilitate the utilization of renewable energies and efficient interactions between DGs, grid, storages and loads. It is crucial to explore intelligent technologies/algorithms for the coordination operation of network microgrids and distributed systems, including the relevant optimal dispatching, MGs cooperative control, power electronics control, storage configurations, reconfigurable networks, service restoration, etc. Moreover, cyber-physical systems and artificial intelligence are also interesting topics related to sustainable networked microgrids and distributed networks.

- modeling and control of (networked) microgrids;
- distributed cooperative control/optimization;
- intelligent control/optimization algorithms;
- control of power electronics-interfaced DGs;
- cyber-physical systems in smart grids



[mdpi.com/si/118874](https://mdpi.com/si/118874)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

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

Department of Mechanical and  
Industrial Engineering, University  
Nicolò Cusano, 00166 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](http://www.mdpi.com)

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