



*energies*

an Open Access Journal by MDPI



## Secure and Efficient Communication in Smart Grids

Guest Editors:

**Dr. Mostafa Fouda**

Department of Electrical and  
Computer Engineering, Idaho  
State University, Pocatello, ID  
83209, USA

**Dr. Mohamed Ibrahim**

Department of Cyber Security  
Engineering, Volgenau School of  
Engineering, George Mason  
University, Fairfax, VA 22030, USA

Deadline for manuscript  
submissions:

**closed (31 December 2022)**

### Message from the Guest Editors

This Special Issue is intended to present feature and scholarly papers that address some of the diverse array of topics related to Smart Grid Secure and Efficient Communication. These topics include, but are not limited to, secure and resilient communication; secure smart metering; key management; authorization and access control; attack detection, mitigation and attribution; trust and privacy; demand-response management; security design and verification tools; and simulation and performance analysis of security operations and services. Technological advances in all these areas have profoundly affected the realization of the secure and efficient communications and information management that are essential to all aspects of the smart grid. We invite scientists and researchers to submit papers for this important Special Issue, “Secure and Efficient Communication in Smart Grids”. Case studies, reviews, and research papers on all topics related to the cybersecurity and communication issues of smart grids are invited.



[mdpi.com/si/94807](https://mdpi.com/si/94807)

# 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)