Special Issue

Cybersecurity Issues in Smart Grids and Future Power Systems

Message from the Guest Editor

Smart grids will rely more on renewable energy sources. Power electronic converters are used in renewable energy generation and storage. Each converter/inverter manufacturer has its own algorithm for programming and optimising its hardware. Furthermore, to respond to any signal from the system operator, these converters rely on communication protocols. As a result, cyber-attacks on these smart converters/inverters are a concern. The main goal of this Special Issue is to give academics, researchers, and industry professionals an opportunity to highlight their current work and define future directions. The topics include, but are not limited to:

- Converter control algorithms
- Synthetic inertia and virtual synchronous machines
- Cyber–physical systems for power systems
- Power quality issues
- Lightweight encryption methods
- Intrusion detection systems
- Artificial intelligence
- Secure and trustworthy in IIoT
- Cybersecurity issues in the IoT

For more information on the Special Issue, please visit the website at: https://www.mdpi.com/si/106824
Please contact the or the Assistant Editor at (ava.jiang@mdpi.com) for any queries.

Guest Editor

Dr. Arshad Arshad

Electrical Power Engineering, School of Computing, Engineering and Built Environment, Glasgow Caledonian University, Glasgow G1 1XQ, UK

Deadline for manuscript submissions

closed (30 September 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/106824

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/sensors

MDPI

About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)