

Special Issue

Monitoring and Analysis for Smart Grids

Message from the Guest Editors

This Special Issue, "Monitoring and Analysis for Smart Grids", stands poised to chart a significant course in advancing our comprehension and practical applications within this evolving domain. The smart grid, positioned at the intersection of technological innovation and sustainable energy, represents a pivotal nexus in our contemporary landscape. Its evolution and optimal functioning are not only crucial for meeting escalating energy demands, but are also imperative for ensuring environmental sustainability. Our goal is to curate a diverse array of contributions that elucidate and catalyze advancements and innovations within this vital sphere. Themes worth exploring encompass, but are not limited to, the following:

- Real-time monitoring technologies for grid performance assessment;
- Data analytics and predictive modeling for grid optimization;
- Integration of renewable energy sources and bolstering grid resilience;
- Cybersecurity frameworks within smart grid infrastructure;
- Advanced sensor networks and their application in grid monitoring;
- Policy implications and regulatory frameworks shaping smart grid development.

Guest Editors

Dr. Mukesh Gautam

Optimization and Control Group, Pacific Northwest National Laboratory, Richland, WA 99354, USA

Dr. Roshan Sharma

Commonwealth Edison Company (ComEd), Chicago, IL 60618, USA

Deadline for manuscript submissions

closed (15 September 2025)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/193445

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

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).