

Special Issue

Power Electronics Applications in Microgrid and Distributed Generation

Message from the Guest Editors

Prospective authors are invited to submit original contributions or survey papers for publication in *Electronics*. Topics of interest for this Special Issue include but are not limited to the following topics in the field of hybrid AC–DC microgrid and DG:

- Architecture and hardware design;
- New power electronics topologies;
- Design for reliability, resilience, and robustness;
- Artificial intelligence techniques in power electronics systems,
- Automation and communication issues in decentralized control strategies;
- Advanced and fault-tolerant control strategies;
- Multilayer (hierarchical) control schemes;
- Integration of renewable energy resources;
- Innovative (hybrid) energy storage devices;
- Energy management systems;
- Control and power-sharing between converters;
- Power quality and protection aspects;
- Industrial, experimental, and hardware-in-the-loop tests and validation

Welcome to contribute.

Guest Editors

Dr. Mahdi Shahparasti

Dr. Alvaro Luna

Dr. Payam Teimourzadeh Baboli

Deadline for manuscript submissions

closed (31 December 2021)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/67111

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 16.8 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the first half of 2025).