



Power Electronics for Smart Grids

Guest Editors:

Dr. Michele De Santis

Department of Engineering,
University Niccolò Cusano, 00166
Roma, Italy

Dr. Stefano Salvatori

Engineering Department,
Università degli Studi Niccolò
Cusano, via don Carlo Gnocchi 3,
00166 Rome, Italy

Dr. Akshay Kumar Rathore

Department of Electrical and
Computer Engineering, Faculty of
Engineering and Computer
Science, Concordia University,
Montreal, QC, Canada

Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editors

The Special Issue seeks high-quality submissions that highlight emerging converter applications to smart grid; smart control of power electronics to achieve smart voltage and frequency regulation of electric power systems; integration of RES, PHEV, and ESS smart communications with the power grid to sell demand response services; and technological advances in electricity distribution and load management. Topics of interest include, but are not limited to:

- Smart control applications for renewable energies;
- Volt/VAR optimization in distribution feeders;
- Wind turbine (WT) and photovoltaic (PV) applications;
- Application of power electronics in smart DC and AC distribution systems;
- Optimal sizing and designing of Hybrid Renewable Energy Systems in smart grid applications;
- Automation technologies to smooth integration of renewable energy resources;
- Electric vehicle (EV) propulsion systems and power electronics applications for electrical drives.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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 guest-edited by leading experts in selected topics of interest.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [CAPus / SciFinder](#), [Inspec](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

Contact Us

Electronics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)