



Power Electronics in Italy—Emerging Electronic Power Technologies and Electronic Devices in the Industrial 4.0 Era

Guest Editors:

Prof. Dr. Gianpaolo Vitale

Dr. Fortunato Pezzimenti

**Prof. Dr. Antonio Di
Bartolomeo**

Dr. Davide Astolfi

Dr. Alessandro Ruvio

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editors

Novel designs and modelling approaches for current and future electronic devices and power technologies are topics of great interest according to the goals of the Fourth Industrial Revolution, or Industry 4.0. These research fields are increasingly leading to the development of complex and intelligent systems to be used in real-world applications and allowing. In addition, they have a significant impacts on electronics, advanced manufacturing, transportation, and logistics within the industry. However, Industry 4.0 is still in a conceptual stage, and several technological problems and requirements common to different types of systems need to be addressed in practice.

The aim of this Italian Special Issue is to collect research papers dealing with emerging electronic power technologies and electronic devices useful in the presented scenario. The topics of interest include, but are not limited to, the following:

- Electronic sensors;
- Field effect transistors;
- Power switch converters;
- Power optimizers;
- Energy harvesting;
- Digital devices;
- Robotics.





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)