

Special Issue

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

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.

Guest Editors

Prof. Dr. Gianpaolo Vitale

Dr. Fortunato Pezzimenti

Prof. Dr. Antonio Di Bartolomeo

Dr. Davide Astolfi

Dr. Alessandro Ruvio

Deadline for manuscript submissions

closed (31 December 2024)



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

Editor-in-Chief

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Systems Engineering)

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manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.4 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the second half of 2024).