

Special Issue

State-of-the-Art and New Trends of Power Electronics Technologies and Applications, Volume 2

Message from the Guest Editors

Power electronics is a comprehensive research area that intersects many areas of application, having contributed decisively, over several decades, to revolutionizing the lives of citizens and to the modernization and evolution of the vast majority of technologies that we use today, as well as increasing industrial competitiveness in all sectors of activity. Moreover, power electronics is essential for driving the evolution of different assets in the new paradigm of smart grids, covering an enormous range of applications. Additionally, it is crucial to highlight that the rapid evolution of power electronics is based on emerging technologies both for the power stage and for the control system. Embracing all these subjects in a transversal way, this **Special Issue** aims to institute a channel among the well-established state of the art and the new trends in power electronics technologies and applications, linking novel contributions from academics, scientists, and researchers.

Guest Editors

Dr. Vítor Monteiro

Algoritmi Research Centre, Department of Industrial Electronics,
University of Minho, 4800-058 Guimarães, Portugal

Prof. Dr. Joao L. Afonso

Department of Industrial Electronics, School of Engineering, University
of Minho, 4800-058 Guimaraes, Portugal

Deadline for manuscript submissions

closed (15 March 2024)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/182213

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 guest-edited 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).