



Applications, Control and Design of Power Electronics Systems

Guest Editor:

Prof. Dr. Michal Frivaldsky

Department of Mechatronics and
Electronics (DME), University of
Zilina, 01026 Zilina, Slovakia

Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editor

Dear Colleagues,

The scope of this Special Issue focuses on applied research concerning power electronic systems for a wide range of uses. We are currently witnessing an enormous development in high-performance electronic systems, as international regulations are strongly tightening the requirements for energy efficiency and green mobility.

Manufacturers of power semiconductor components are overseeing this trend, which is reflected in the continuous development of novel semiconductor structures, their package technologies and the optimization of their thermal performance. However, in light of technological progress, it should be noted that each novel technology requires some time for the evaluation of its suitability for applications. Here, we discuss technological progress within energy storage systems, energy transmission, charging infrastructure, electric traction and electric drives. Recently applied research of these systems in the form of an analysis, modeling, simulation or experimental testing could provide an impetus to accelerate deployment in practical applications.

Prof. Dr. Michal Frivaldsky
Guest Editor





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)