Special Issue

Power Electronics Converter Topologies and Control Techniques

Message from the Guest Editors

Distributed power generation and micro grids are the future of our electrical system, where unstable renewable energy resources such as solar and wind can be stabilized by integrating battery storage. Electrification in transportation and smart sensing technology also provide great opportunities. In such a complex system, highly effective energy conversion plays an important role in reducing energy consumption and tackling climate change. This Special Issue aims to present the latest development in power converter design and control techniques, including all related applications. The topics of interest include, but are not limited to:

- High-performance power converters;
- Power converter control and analysis;
- Solar and wind power;
- Energy storage;
- Electrical vehicles;
- Wireless power transfer;
- Induction heating;
- Thermal management.

Guest Editors

Prof. Dr. Dylan Lu

School of Electrical and Data Engineering, University of Technology Sydney, Sydney, NSW 2007, Australia

Dr. Ha Pham

School of Electrical and Data Engineering, University of Technology Sydney, Sydney, NSW 2007, Australia

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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 guestedited 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

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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).

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