



Electronic Devices Supporting the Holistic Approach of Energy Efficiency of Current Technologies

Guest Editors:

Prof. Dr. Dariusz Choiński

Department of Automatic Control and Robotics, Silesian University of Technology, 44-100 Gliwice, Poland

Prof. Dr. Amin Hajizadeh

Department of Energy Technology, Aalborg University, Esbjerg, Denmark

Prof. Helcio R B Orlando

Departamento de Engenharia Mecânica (DEM) Federal University of Rio de Janeiro, RJ, Brazil

Deadline for manuscript submissions:

closed (30 November 2022)

Message from the Guest Editors

Despite the proposal of new technologies in many areas, technologies that have been known of for many years are still being used. The energy efficiency of newly designed devices can be improved using the latest solutions.

The focus of this Special Issue is not only on the improvement of power supply and power control systems but also the support of energy management techniques.

Successful overall designs include installing a wide range of energy-saving technologies as well as adopting behavioral changes to improve energy consumption. This applies to sensory systems and model-based algorithms to optimize power supply systems and power control by identifying needs and behaviors that affect energy management and, also, machine-learning methods for accurately predicting energy consumption for optimal decision-making.





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), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://x.com/electronicsMDPI)