



Embedded Systems: Fundamentals, Design and Practical Applications

Guest Editors:

Prof. Dr. Alexander Barkalov

Prof. Dr. Larysa Titarenko

Prof. Dr. Dariusz Kania

**Prof. Dr. Remigiusz
Wiśniewski**

Deadline for manuscript
submissions:

15 September 2024

Message from the Guest Editors

Dear Colleagues,

Recent years have witnessed the ever-more widespread use of embedded systems in increasingly diverse areas of human activity. Suffice to say, about 99% of all manufactured microprocessors are used in embedded systems. With the development of the Internet of Things, the automation of production, and the increasing utilization of various robots, enhancing the intelligence of the material world around us would be unthinkable without the use of embedded systems. Modern embedded systems are implemented both on the basis of fairly simple microcontrollers, and on the basis of complex integrated circuits consisting of billions of transistors. In many cases, embedded systems are real-time cyber-physical systems that monitor and control complex physical objects.

The aim of this Special Issue is to collate scientific manuscripts on the practical and theoretical aspects associated with theoretical and practical aspects of implementing efficient embedded systems. The key focus is to present theoretical advances, as well as new specification, design, and verification methods, in order to improve the main characteristics of embedded systems.





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, 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)