



Progress and Future Development of Real-Time Systems on Chip

Guest Editor:

Dr. Lukáš Kohútka

Institute of Informatics,
Information Systems and
Software Engineering, Slovak
University of Technology in
Bratislava, 812 43 Bratislava,
Slovakia

Deadline for manuscript
submissions:

closed (15 June 2025)

Message from the Guest Editor

Dear Colleagues,

We are delighted to announce the forthcoming Special Issue on "Progress and Future Development of Real-Time Systems on Chip". This Special Issue is focused on topics relevant to real-time systems on chip and related areas, including but not limited to:

- Systems on Chip (SoC): Novel design methodologies, architectures, and verification techniques.
- ASIC and FPGA Designs: Cutting-edge research on application-specific integrated circuits (ASICs) and field-programmable gate arrays (FPGAs).
- CPU Architectures: Innovations in CPU microarchitecture and instruction set design to enhance real-time processing capabilities, exploit parallelism, and improve predictability.
- Real-Time Task Scheduling: State-of-the-art algorithms, techniques, and frameworks for real-time task scheduling in multi-core and heterogeneous systems, ensuring timely execution and meeting stringent deadlines.
- Data Sorting Solutions: Efficient algorithms and hardware implementations for real-time data sorting in big data applications, high-performance computing, and streaming data scenarios.





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 guestedited 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 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic 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)