



Energy-Efficient Processors, Systems, and Their Applications

Guest Editors:

Dr. Iakovos Mavroidis

Institute of Computer Science (ICS), Foundation for Research and Technology—Hellas (FORTH), Vassilika Vouton, GR-70013 Heraklion, Crete, Greece

Dr. Sotiris Ioannidis

School of Electrical and Computer Engineering, Technical University of Crete, Akrotiri Campus, 731 00 Chania, Greece

Dr. Konstantinos Georgopoulos

School of Electrical and Computer Engineering, Technical University of Crete, Campus Kounoupidiana, 73100 Chania, Crete, Greece

Deadline for manuscript submissions:

closed (15 November 2022)

Message from the Guest Editors

The main focus of this Special Issue will be on the most recent and novel developments in the domain of high-performance computing, which maintain a primary focus on energy efficiency. Revolutionary methods are required with a stronger integration among hardware features, system software, and applications. Topics of interest include, but are not limited to:

- Energy-efficient CPUs, such as ARM and RISC-V CPUs;
- Application-specific hardware accelerators, such as FPGAs and TPUs;
- System software optimizations that allow for efficient communication and avoid system contentions, such as user-level interprocess communication, user-level interrupts, and lightweight runtime systems;
- Application optimizations to reduce data movements, i.e., bring data closer to computational units as well as avoid data transfer bottlenecks.





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 (*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)