Special Issue

Energy-Efficient Processors, Systems, and Their Applications

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.

Guest Editors

Dr. Iakovos Mavroidis

Dr. Sotiris Ioannidis

Dr. Konstantinos Georgopoulos

Deadline for manuscript submissions

closed (15 November 2022)

Electronics

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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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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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