

Special Issue

High-Performance Computer Architectures and Applications, 2nd Edition

Message from the Guest Editor

HPCs offer stunning opportunities to solve complex problems due to the use of advanced hardware platforms, parallelization, distributed programming, and algorithms. Computational power continues to steadily rise due to the continuous evolution of computer architectures, networks, and software. However, taking advantage of this large amount of resources presents a significant challenge. This Special Issue aims to collect innovative contributions, with new approaches, proposals, techniques, and applications in this field. The topics of interest include but are not limited to the following:

- High-performance computer architecture;
- High-performance computer system software;
- Multicore and multithreaded architecture methods;
- Applications related to high-performance computing;
- Distributed systems;
- High-performance computing in cloud platforms;
- Data-intensive computing;
- Optimal energy solutions;
- Energy-aware scheduling;
- Accelerators such as GPUs and TPUs.

I look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (15 June 2025)



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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.

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