

Special Issue

Parallel and Distributed Computing Systems: Current Trends and Future Prospects

Message from the Guest Editors

The rapid evolution of computing technologies, driven by the exponential growth of data-intensive applications, artificial intelligence, IoT, and cloud-edge ecosystems, has positioned parallel and distributed computing systems as critical enablers of modern computational efficiency and scalability. This Special Issue seeks to explore and highlight the latest advances and emerging challenges in parallel and distributed computing systems. It aims to address challenges in architecture design, algorithm optimization, resource management, fault tolerance, energy efficiency, and security while fostering discussions on novel applications in areas such as machine learning, edge computing, blockchain, and quantum-inspired distributed systems. Topics of interest include, but are not limited to, multi-core and many-core processors, high-performance computing, cloud and edge computing, distributed algorithms, scalability, energy-efficient solutions, and heterogeneous architectures. This Special Issue welcomes original research articles, comprehensive review papers, and case studies that address both fundamental principles and real-world implementations.

Guest Editors

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Dr. Chuang Hu
Dr. Fang He

Deadline for manuscript submissions

closed (15 December 2025)



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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.

Editor-in-Chief

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