Special Issue

Applications for Distributed Networking Systems

Message from the Guest Editors

Distributed and cloud-enabled technologies are increasingly becoming mainstream solutions. Applications involving control and management systems are nowadays traversing to decentralized control solutions that either incorporate ML decision logic or rely on cloud-based frameworks, M2M real-time metering, and smart services. For the implementation of such distributed systems, designers must address several issues, including accuracy, communication, energy efficiency, memory usage, locality, distributed node failures, concurrency, authentication, security, and fault tolerance. In the scope of this SI are the emergence of new distributed models, algorithms, distributed computation services, and applications for integrating new distributed infrastructure systems, algorithms, and services, as well as transformations of traditional Industrial and mainstream centralized systems to distributed ones, designed to leverage economics of scale through batch processing. Such transformations include systems such as incident response systems, resource management systems industrial plants, healthcare systems, energy systems, mobile nets, IoT systems, communication, and broadcast media systems.

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Deadline for manuscript submissions

closed (15 September 2023)

Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1

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

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