

Special Issue

Advances in Networked Systems and Communication Protocols

Message from the Guest Editors

The landscape of wireless communication is undergoing a radical transformation, driven by demands for low latency, high reliability, and large-scale integration. However, these advances are driving networked systems and communication protocols to their limits.

Existing architectures and protocols still face fundamental challenges in scalability, security, intelligence, and efficiency for next-gen services. This calls for a move to more intelligent, adaptive, and high-performance networking foundations. This Special Issue aims to discuss cutting-edge research in networked systems and communication protocols. The scope covers aspects of modern networks, from theoretical foundations and architectural paradigms to deployments and experimental tests. Topics include:

- Protocol design for 5G/6G networks;
- Cloud, edge, and fog computing;
- AI and machine learning for network management;
- Network security and privacy;
- Energy-efficient communication;
- Power system network design;
- Integrated space-air-ground networks;
- Integrated sensing and communication;
- Internet of Things and ubiquitous networking;
- Software-defined networking and network virtualization.

Guest Editors

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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