Special Issue

Future Internet Circuits and Systems: Bridging Communication, Sensing and Al

Message from the Guest Editors

The transition towards 6G and beyond is driving unprecedented demand for advanced circuits and systems that can support a new era of intelligent, energy-efficient and immersive wireless connectivity.

This Special Issue aims to bring together cutting-edge research focused specifically on circuits and systems underpinning next-generation wireless networks. These wireless networks require the seamless integration of communication and sensing capabilities, support for Alnative operations at the edge and ultra-low power consumption to meet the stringent requirements of IoT scalability and sustainability.

We welcome high-quality original research and review articles focused on circuits and systems. Contributions may address (but are not limited to) the following topics:

- Millimetre-wave/sub-THz hardware for 6G and beyond.
- AloT.
- Integrated communications and sensing.
- Al-centric wireless and architectures.
- IoS applications, e.g., haptic and audio-visual processing.
- Digital twin support and sensory data emulation.

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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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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).

