

Special Issue

New Challenges in Beyond 5G/6G Network Wireless Technologies

Message from the Guest Editors

We welcome submissions on cutting-edge topics such as millimeter-wave and terahertz communications, intelligent reflecting surfaces (IRSs), AI/ML-based resource management, integrated terrestrial and non-terrestrial networks (NTNs), and green networking paradigms. In addition, security and privacy are becoming critical pillars of 6G systems—authors are encouraged to explore novel methods for securing data transmission, safeguarding user privacy, and building resilient, trust-aware network infrastructures.

Topics of interest include, but are not limited to, the following:

- AI-driven network optimization for B5G/6G;
- cost-efficient wireless and optical networks;
- Energy-efficient and sustainable 6G wireless;
- Secure and privacy-preserving architectures;
- Moving Target Defense;
- Trust models and privacy preservation;
- AI-based behavioral analysis;
- ML/AI-based threat detection and mitigation;
- Security in edge and fog computing;
- Optical and wireless fronthaul/backhaul innovations;
- Satellite and UAV-enabled communication systems;
- ML- and SDN-based dynamic network slicing;
- Physical layer security and authentication mechanisms.

Guest Editors

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Deadline for manuscript submissions

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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.

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