

Special Issue

Advanced Technologies in AI-Assisted 5G/6G Networking

Message from the Guest Editors

This Special Issue aims to generate a collective understanding of how AI could be helpful in building advanced technologies for next-generation wireless communication networks, particularly 5G and 6G, as well as to reveal the potentials of AI in optimizing, managing, and enabling the wireless networks. It is also important to demonstrate the applicability and feasibility of the aforementioned technologies for 5G and 6G networks and their interoperability with AI. Original research articles and reviews are welcome, research areas including but not limited to

- AI-assisted UAV-based communications for capacity enhancement and emergency scenarios;
- The role of AI in intelligent reflective surface (IRS)-based communications;
- V2V, V2I, and V2X communications;
- Millimeter-wave communications;
- THz communications;
- Context-aware wireless networking;
- AI-assisted PHY and networking;
- Green communications;
- Visible light communications;
- AI-assisted MAC layer solutions for 5G and 6G;
- The help of AI in faster-than-Nyquist (FTN) signaling;
- The integration of big data and AI for wireless networks;
- Intelligent mobility management mechanisms for 5G and 6G;
- 6G satellite communications.

Guest Editors

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Deadline for manuscript submissions

closed (25 October 2023)



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

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