

Special Issue

Trends in 5G/6G Mobile Communication: Machine Learning and Intelligent Technologies

Message from the Guest Editors

The evolution of 5G/6G mobile communication systems has been profoundly reshaped by advances in machine learning (ML) and artificial intelligence (AI), enabling unprecedented network intelligence, adaptability, and efficiency. This Special Issue seeks to consolidate groundbreaking research at the intersection of AI/ML-driven methodologies and next-generation wireless technologies, addressing both theoretical innovations and practical implementations.

- Intelligence native network architecture and technologies for 6G communications
- AI-empowered channel modelling and estimation for 5G/6G communications
- AI-empowered signal processing technologies for 5G/6G communications
- AI-empowered resource management technologies for 5G/6G communications
- AI-based network security enhancement for 5G/6G communications
- Intelligent edge computing for vehicular networks/unmanned aerial vehicle networks in 5G/6G communications
- Semantic communication-empowered 6G networks
- Generative AI and large language models for 6G communications
- Application of machine learning and intelligent technologies in industrial Internet of things.

We look forward to hearing from you

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.

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