Special Issue

Advances in Mobile Network and Intelligent Communication

Message from the Guest Editors

Recently, we have witnessed a rapid growth in mobile data traffic and the expansion of the IoT ecosystem with massive connectivity. This Special Issue will focus on the recent advances in theoretical and applied studies of mobile networks and intelligent communication. Topics include, but are not limited to:

- Networks using 5G and beyond;
- Cellular networks, WLAN, WPAN and LPWAN;
- mmWave, THz, VLC, reconfigurable intellligent surfaces;
- Radio access, resource allocation and spectrum sharing;
- Edge computing and intelligence;
- Quality-of-service, network planning and management;
- Software-defined networking and network virtualization;
- AI, machine learning and digital twin for wireless networks;
- Connected unmanned aerial/terrestrial/underwater systems;
- Internet of Things, smart wireless systems and applications;
- Wireless power and energy-harvesting systems;
- Mobile data science and analysis;
- Integrated communication, sensing and localization;
- Security and privacy for wireless networks;
- Modeling, performance analysis and optimization;

Guest Editors

Prof. Dr. Jianhua He

Dr. Yipeng Zhou

Prof. Dr. Wei Wang

Dr. Fan Wu

Deadline for manuscript submissions

closed (10 July 2025)

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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