Special Issue

6G Wireless Network Technologies

Message from the Guest Editors

The sixth generation (6G) of wireless networks is envisioned as a transformative paradigm that will redefine global connectivity by the 2030s. Building upon the foundation of 5G and beyond, 6G aims to achieve unprecedented capabilities, including terabit-per-second data rates, sub-millisecond latency, and pervasive intelligence throughout the network. Core enabling technologies are expected to include terahertz (THz) communications, ultra-massive MIMO, reconfigurable intelligent surfaces (RISs), integrated sensing and communication, and quantum-inspired techniques for security and optimization. In parallel, artificial intelligence and machine learning will be deeply embedded across all network layers, enabling fully autonomous, self-optimizing systems. This Special Issue invites original contributions that address the theoretical, algorithmic, and practical aspects of 6G wireless technologies. Topics of interest include, but are not limited to:

- novel architectures;
- spectrum management;
- intelligent network design;
- energy efficiency;
- security;
- cross-disciplinary innovations shaping the future of 6G.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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