

Special Issue

6G Technology

Message from the Guest Editors

The sixth generation (6G) of cellular communications will be a pivotal technology for future society. It will vastly exceed 5G with Tbps-level speeds, under 1ms latency, and use of the new FR3 spectrum (7.125–24.25 GHz). Key enablers include AI/ML, terahertz (THz) communication, reconfigurable intelligent surfaces (RIS), non-terrestrial networks (NTN), integrated sensing and communications (ISAC), and advanced antenna systems. These technologies will support groundbreaking applications like holographic communications, the tactile Internet, connected autonomous systems, and immersive AR/VR. We invite original contributions on 6G technologies. Potential topics include, but are not limited to:

- Antenna systems
- Non-terrestrial networks (NTN)
- Reconfigurable intelligent surfaces (RIS)
- Integrated sensing and communications (ISAC)
- Machine learning applications
- Network design and optimization
- THz communications
- FR3 band communication
- NOMA techniques
- IoT
- System and network architectures
- Wireless backhaul and fronthaul
- Network slicing
- Intent-based systems and digital twinning
- Network softwarization
- Blockchain technology
- Vehicular networks
- Cell-free communication

Guest Editors

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Message from the Editor-in-Chief

Technologies, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

Editor-in-Chief

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