

Special Issue

Advances and Future Trends in 6G and Next-Generation Wireless Communication Networks

Message from the Guest Editors

The evolution of mobile and wireless communication technologies continues to drive global digital transformation. The sixth-generation (6G) cellular systems, which promise to deliver unprecedented performance in data rate, latency, connectivity, and intelligence. 6G is envisioned to enable data rates exceeding terabits per second, sub-millisecond latency, and ubiquitous connectivity across terrestrial, aerial, and satellite environments. It will leverage artificial intelligence (AI), machine learning, reconfigurable intelligent surfaces (RIS), and terahertz (THz) communication to realize truly intelligent and adaptive networks. These capabilities will empower next-generation applications such as immersive extended reality (XR), tactile internet, digital twins, autonomous mobility, and smart cities. The aim of this Special Issue is to present recent advances, innovative concepts, and emerging directions in the design and optimization of 6G and beyond wireless systems. This Special Issue will highlight the convergence of communication systems with AI, edge computing, quantum communication, and network intelligence, thereby laying the foundations for future wireless ecosystems.

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About the Journal

Message from the Editor-in-Chief

I would like to introduce the new, online, and open access journal *Telecom*. The purpose of *Telecom* is to publish high-quality research papers as well as review articles that address recent advances in communications technology. We invite researchers to contribute original papers describing applications and experiences in emerging trends of all fields of telecommunications engineering. *Telecom* also welcomes Special Issue proposals from academics and industrial researchers. We aim to facilitate more collaboration between scientists and engineers around the world, such that they will produce their innovative ideas and submit their cutting-edge technologies to *Telecom*. We anticipate the receipt of your contributions to *Telecom*, and we welcome your comments and ideas on how to improve this journal.

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