

Special Issue

Integrated Sensing, Communication, and Networking for 5G–6G and IoT Systems

Message from the Guest Editors

The rapid convergence of communication, sensing, and networking technologies is driving a new era of intelligent and interconnected systems for 5G, 6G, and the Internet of Things (IoT). Integrated Sensing and Communication (ISAC) has emerged as a key paradigm enabling the joint utilization of spectrum, hardware, and infrastructure to support both data transmission and environment perception. This Special Issue aims to bring together cutting-edge research that explores novel architectures, algorithms, and protocols for seamless integration of sensing, communication, and networking functionalities. Topics of interest include ISAC for enhanced wireless networks, cooperative and distributed sensing in IoT, spectrum and resource management for joint communication and sensing, and AI/ML-driven techniques for adaptive optimization. Furthermore, contributions addressing use cases such as smart cities, autonomous vehicles, unmanned aerial systems, healthcare, and industrial IoT are highly encouraged. This Special Issue will advance the theoretical foundations, practical implementation, and standardization efforts for future 5G–6G networks and beyond.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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