

Special Issue

Wireless Communication Technologies for Internet of Things and Wireless Sensor Networks

Message from the Guest Editors

With the arrival of the sixth-generation (6G) communications era, marked by ubiquitous connectivity, extremely low latency, and ultrahigh reliability, the future landscape of the Internet of Things (IoT) is undergoing significant changes, increasing interest in utilizing emerging wireless communication technologies in multi-domain sensing applications. Evolving IoT and wireless sensor networks are bolstered by diverse technologies, e.g., UAV, generative artificial intelligence (GenAI), and integrated sensing and communication (ISAC). Progress in the combination of these technologies has opened up new opportunities to enhance network performance. Moreover, to meet the demands of emerging application scenarios, new technologies and frameworks are required for IoT and wireless sensor networks. This Special Issue will delve deeply into these challenges and opportunities, inviting contributions to theoretical advancements, technological solutions, and case studies that support various applications for facilitating the development of IoT and wireless sensor networks.

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Deadline for manuscript submissions

closed (1 December 2025)



Sensors

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Impact Factor 3.5
CiteScore 8.2
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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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