

Special Issue

Integrated Sensing and Communications in IoT Applications

Message from the Guest Editors

The concept of integrated sensing and communication (ISAC) aims to seamlessly integrate the acquisition of sensing information with communication functionalities within a unified system, thereby presenting unparalleled benefits for Internet of Things (IoT) applications. In this context, this Special Issue aims to explore the emerging role of ISAC in IoT applications, addressing the challenges and potential solutions for its deployment. The topics of interest include, but are not limited to, the following:

- Integration techniques and frameworks for sensing and communication in IoT systems;
- Real-time data fusion techniques and optimization methods for improving accuracy and efficiency;
- Resource-efficient ISAC for energy-limited IoT devices;
- AI-driven adaptation and management of ISAC functions;
- Applications of ISAC in smart cities, industrial automation, and environmental monitoring;
- Security and privacy challenges in ISAC-enabled IoT networks;
- Low-latency and high-reliability solutions in ISAC for IoT.

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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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