

Special Issue

Integrated Sensing, Communications, and Computing: Enabling Technologies and Applications for Intelligent Communication Networks and Low-Altitude Economy

Message from the Guest Editors

The convergence of Integrated Sensing, Communications, and Computing (ISCC) is revolutionizing next-generation intelligent communication networks and the emerging low-altitude economy. As advancements in 6G, artificial intelligence (AI), and edge computing accelerate, ISCC is enabling seamless interaction between terrestrial and aerial networks, supporting applications such as unmanned aerial vehicles (UAVs), urban air mobility (UAM), and smart transportation. The integration of ISCC in intelligent communication networks plays a crucial role in enhancing situational awareness, resource allocation, and real-time decision-making for air-ground collaborative systems. This Special Issue aims to explore the latest research, cutting-edge technologies, and real-world applications at the intersection of ISCC, intelligent communication networks, and the low-altitude economy.

- Waveform, sequence, coding, modulation, and beamforming design for ISCC;
- MIMO, massive MIMO, and ultra-massive MIMO technologies for ISCC;
- Near-field transmission for ISCC;
- ISCC design and optimization in V2X, UAV, and UAM networks;
- Artificial intelligence for ISCC

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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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