

Special Issue

Advanced MIMO Technology-Enabled Integrated Sensing and Communication

Message from the Guest Editors

Future wireless networks are expected to become essential enablers for various new applications/services requiring high network throughput and precise perception capabilities. To this end, integrated sensing and communication (ISAC) is a new research area that aims to realize communication and sensing functions in a unified system, as well as generate their mutual benefits. This Special Issue (SI) seeks to explore MIMO-enabled ISAC and calls for high-quality original research papers from researchers and practitioners on topics including, but not limited to, the following:

- The fundamental limits of MIMO-enabled ISAC;
- Waveform/modulation/beamforming design for MIMO-enabled ISAC;
- Reflecting intelligent surface-/fluid antenna-empowered ISAC;
- Millimeter waves and THz in MIMO-enabled ISAC;
- Near-field MIMO-enabled ISAC transmission;
- Cell-free MIMO-empowered ISAC networks;
- AI for MIMO-enabled ISAC;
- Hardware prototyping and field tests for MIMO-enabled ISAC.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2025)



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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.

Editor-in-Chief

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