

Call for Papers

Integrated Sensing and Communications

Publication Date: Q4 2025

Manuscript Submission Deadline: 2 May 2025

Sensing and imaging has revolutionized our world and has become crucial in applications spanning medicine to security. Wireless communication has also revolutionized our world and is now available anywhere, anytime and to everybody. By integrating these technologies, on common hardware platforms, we are poised to enter a new era in sensing and imaging that is available anywhere, anytime and to everybody.

Integrated sensing and communication (ISAC) promises to provide new technologies in diverse fields from autonomous vehicles, disaster management, smart cities and to the low-altitude economy. The importance of ISAC is highlighted by the International Telecommunication Union (ITU) acknowledging ISAC as a critical component of its 6G vision. From a systems perspective, the convergence of the Sub-6GHz/cmWave/mmWave/THz frequency bands and the use of innovative antenna systems such as multiple-input multiple-output (MIMO), reconfigurable and beam steering antennas has also blurred the boundaries between communication and sensing systems. This is particularly evident in terms of hardware platforms, antennas, RF front-ends, propagation modelling, and signal processing for sensing and imaging.

The IEEE Journal of Selected Topics in Electromagnetics, Antennas and Propagation (JSTEAP) is a new journal co-sponsored by the Antennas and Propagation Society (AP-S), Microwave Theory and Technology Society (MTT-S), and the Communications Society (ComSoc). The selected topic of ISAC will be JSTEAP's inaugural issue, and it seeks to bring together contributions from researchers and practitioners in the area of electromagnetics, antennas, propagation, and their nexus with wireless communications, microwave systems, and signal processing. JSTEAP was launched in January 2025 with the first issue expected in Q4 of 2025.

For the inaugural issue of JSTEAP we are now soliciting high-quality original research papers on ISAC covering aspects from theory, experiments, design to applied engineering innovations, surveys, tutorials and reviews. Further details can be found in our call:

<https://ieeeps.org/call-for-papers-integrated-sensing-and-communications>

Important Dates

Manuscript Submission: 2 May 2025

First Notification: 2 July 2025

Revised Manuscript Due: 4 August 2025

Acceptance Notification: 29 August 2025

Final Manuscript Due: 5 September 2025

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