

Special Issue

IoT Sensing and Generalization

Message from the Guest Editors

IoT sensing technologies (e.g., millimeter-wave radar, Wi-Fi, UWB, RFID, acoustic, and 5G/6G signals) have revolutionized environmental and human activity perception by leveraging ubiquitous electromagnetic signals as sensing media. Despite rapid advancements, the capability for generalization remains a critical bottleneck for IoT sensing systems. Environmental dynamics (e.g., layout changes, multipath interference) and human variability (e.g., posture, motion patterns) often degrade sensing accuracy, limiting real-world deployment. This Special Issue seeks to address these challenges by soliciting research on the following topics:

- Synthetic data generation;
- Self-supervised learning;
- Generalizable representation learning;
- Continuous learning;
- Wireless sensing with LLMs;
- Cross-domain adaptation;
- Multimodal wireless sensing;
- Explainable wireless sensing;
- Novel applications;
- Integrated sensing and communication.

We look forward to receiving your contributions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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