

Special Issue

Advanced Signal and Image Processing Techniques for Sensor Applications—2nd Edition

Message from the Guest Editors

This Special Issue highlights advances in signal and image processing algorithms for a wide range of sensors and sensing methods. Topics include, but are not limited to:

- Advanced sensor characterization techniques;
- Ambient assisted living;
- Biomedical signal and image analysis;
- Signal and image processing (e.g., deblurring, denoising, super-resolution);
- Signal and image understanding (e.g., object detection and recognition, action recognition, semantic segmentation, novel feature extraction);
- Internet of Things (IoT);
- Machine learning (e.g., deep learning) in signal and image processing;
- Radar signal processing;
- Real-time signal and image processing algorithms and architectures (e.g., FPGA, DSP, GPU);
- Remote sensing processing;
- Sensor data fusion and integration;
- Sensor error modelling and online calibration;
- Smart environments and smart cities;
- Wearable sensor signal processing and its applications;
- Self-supervised and/or foundation models for signal and image processing from sensor data;
- Multimodal sensor fusion and cross-domain representation learning using heterogeneous sensor data;
- Edge AI, TinyML, and energy-efficient signal and image processing for embedded and real-time sensing platforms.

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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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