

Special Issue

Advances in Intelligent System Engineering for Smart Sensor Applications

Message from the Guest Editor

This Special Issue aims to explore recent breakthroughs in intelligent system engineering that contribute to the evolution of smart sensor applications. We welcome original research articles, reviews, and case studies focusing on novel methodologies, hardware and software innovations, optimization techniques, and interdisciplinary approaches that improve sensor efficiency, accuracy, and adaptability. Contributions discussing challenges, emerging trends, and future directions in this rapidly evolving field are also encouraged. Topics of interest include, but are not limited to, the following:

- AI-driven smart sensor technologies;
- Machine learning and deep learning for sensor data analysis;
- Edge computing and real-time decision making in smart sensors;
- Embedded systems for intelligent sensing;
- Wireless sensor networks and IoT-based smart sensors;
- Energy-efficient and self-powered sensor designs;
- Sensor fusion techniques and multimodal data processing;
- Smart sensing applications in healthcare, environmental monitoring, and industrial automation;
- Security, privacy, and reliability in intelligent sensor networks;

Guest Editor

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Deadline for manuscript submissions

25 September 2025



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/233832

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About the Journal

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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