

Special Issue

Smart Infrastructure for Sensor-Driven Systems

Message from the Guest Editors

Agentic sensors represent a new development in intelligent sensing, integrating autonomy, dynamic provisioning, systems orchestration, and embedded design directly within sensor systems. Drawing on cyber-physical principles and enhanced by cloud engineering, artificial intelligence (AI), mechatronics, and advanced modelling techniques, these sensors form the foundation for transforming smart grids, mobile ecosystems, and Industry 4.0 infrastructure into self-aware, responsive, and sustainable systems. This Special Issue invites contributions on a broad range of topics, including sensor design for intelligent infrastructure, embedded AI for real-time perception and decision-making, sensor-cloud integration frameworks, agent-based control systems, and scalable modelling for smart environments. The submission of both original research papers and review articles is welcome, especially those exploring agentic sensing mechanisms, infrastructure-based sensor systems, and intelligent networked environments.

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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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