

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.

Guest Editors

Prof. Dr. Kennedy Chinedu Okafor

Department of Civil and Environmental Engineering, Imperial College London, South Kensington Campus, London SW7 2AZ, UK

Dr. Kelvin Anoh

School of Engineering, Computing and Design, University of Chichester, Chichester, UK

Deadline for manuscript submissions

31 July 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/255486

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)