

Special Issue

Advances in Sensorized AI-Driven Intelligent Systems in Healthcare and Beyond

Message from the Guest Editors

Artificial intelligence (AI), driven by the rapid advancement of digital technology, is evolving into interconnected systems that are transforming various fields, including human-machine systems (HMSs), cognitive IoT, edge computing, healthcare, and wearable applications. These systems offer users cutting-edge services, enabling more precise diagnostics, predictive modeling, and data-driven insights that are revolutionizing modern healthcare and research methodologies in the medical domain. This Special Issue contributes to advancing methods to capture, process and analyze data from population studies, IoT medical devices, and edge devices, integrating them with machine learning (ML) algorithms to develop systematic approaches. The inclusion of explainable AI (XAI) or large language models (LLMs) further strengthens these systematic approaches, making them more transparent, efficient, and user-friendly. We also welcome contributions showcasing demos and practical applications, highlighting innovative implementations and real-world use cases aligned with the Special Issue.

Guest Editors

Dr. Domenico Lofú

Dr. Pietro Pinoli

Dr. Giuseppe D'Aniello

Dr. Paolo Sorino

Deadline for manuscript submissions

15 October 2025



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/229158

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)