

## Special Issue

# The Use of Artificial Intelligence and Machine Learning with Sensor Data for Human Healthcare Applications

### Message from the Guest Editors

The field of healthcare is undergoing a transformative shift due to the integration of sensor-derived data, artificial intelligence (AI) and machine learning (ML). This Special Issue seeks to bring together groundbreaking research and advancements in leveraging these data-driven technologies to enhance health outcomes. By harnessing data from advanced sensor platforms and the predictive capabilities of AI/ML, innovative solutions are emerging for health monitoring, diagnostics, and personalized care. For instance, data collected by wearable devices such as smartwatches—which monitor vital signs, sleep patterns, and activity levels—can be processed with sophisticated AI/ML algorithms to detect anomalies, predict potential health concerns, and deliver personalized health recommendations. This integration of sensor data and AI/ML is crucial for real-time health management, especially for early detection and disease prevention. We invite research that focuses on AI/ML-driven analysis and modeling of sensor data in healthcare settings.

### Guest Editors

Dr. Samprit Banerjee

1. Division of Biostatistics, Department of Population Health Sciences, Weill Cornell Medical College, New York, NY 10065, USA
2. Weill Cornell Institute of Geriatric Psychiatry, Weill Cornell Medical College, White Plains, NY 10605, USA

Dr. Soohyun Kim

Division of Biostatistics, Department of Population Health Sciences, Weill Cornell Medical College, New York, NY 10065, USA

### Deadline for manuscript submissions

15 November 2026



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/223709](https://mdpi.com/si/223709)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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

Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 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)