

## Special Issue

# Industry 5.0 and Beyond: Sensor and Digital Technologies for Sustainable, Circular, and Human-Centric Systems

### Message from the Guest Editors

Industry 5.0 advances beyond Industry 4.0, emphasizing sustainability, circularity, and human-centric principles in sectors like healthcare, energy, and manufacturing. Leveraging advanced sensor and digital technologies, such as IoT, Digital Twins, AI, and ML, enables real-time monitoring, data-driven decision-making, and optimisation. Smart sensors, including MEMS/NEMS and non-invasive technologies like CT, allow IoT integration in harsh or confined environments. System-level approaches supported by tools like life cycle analysis, operations research, and optimisation foster economic efficiency, resource conservation, and human well-being. This Special Issue invites original research and reviews on smart sensors and digital technologies for sustainability, circularity, and human-centricity. Topics include smart sensors, wearable devices, IoT, IIoT, industrial wireless networks, AI/ML applications, Industry 4.0, Industry 5.0, robotics, human-computer interaction, and applications in agriculture, industry, and the environment.

### Guest Editors

Dr. Maria Valero Bernal

Prof. Dr. Manuchehr Soleimani

Dr. Anthony Basco Halog

### Deadline for manuscript submissions

25 September 2025



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.4  
CiteScore 7.3  
Indexed in PubMed



[mdpi.com/si/226328](https://mdpi.com/si/226328)

*Sensors*

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 3.4  
CiteScore 7.3  
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 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)