

## Special Issue

# Sensing Technologies and Wireless Communications for Industrial IoT

### Message from the Guest Editors

Over the past few years, advances in wireless communications and signal processing have facilitated the development of novel technologies and methods, allowing for integrated sensing and communication in diverse scenarios. One such scenario where these wireless-based techniques are expected to be successful is the industrial IoT scenario, as the need for detailed and ubiquitous positioning, monitoring, control, and coordination between static and mobile production elements is paramount. The current Special Issue invites the submission of research that addresses and investigates new sensing methods, industrial integrated wireless control systems, technologies bridging the physical and virtual industrial worlds, or new cloud-based industrial application methods.

- Advanced integrated industrial sensing, wireless control, and monitoring systems;
- Wireless deployments and field trials in operational industrial scenarios;
- Performance evaluations, simulations, and measurements of wireless IoT systems;
- Novel sensing schemes and protocol design;
- Digital twins and integration of the physical world and virtual world in industrial settings.

---

### Guest Editors

Dr. Ignacio Rodríguez Larrad

Area of Signal Theory and Communications, Department of Electrical Engineering, University of Oviedo, 33203 Gijón, Spain

Dr. Rafael González Ayestarán

Area of Signal Theory and Communications, Department of Electrical Engineering, University of Oviedo, 33203 Gijón, Spain

---

### Deadline for manuscript submissions

closed (28 February 2025)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/150859](https://mdpi.com/si/150859)

*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

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)