# **Special Issue**

## Smart Sensors in Precision Agriculture

### Message from the Guest Editor

Smart sensors play a crucial role in Precision Agriculture by providing real-time, accurate data that enable farmers to make informed decisions. These sensors. integrated with IoT. AI. and data analytics, optimize resource usage, enhance crop yields, and ensure sustainable farming practices. By enabling the real-time monitoring of soil, crops, and environmental conditions, these sensors empower farmers to make smarter decisions, optimize resources, and improve the overall productivity of farms while reducing their environmental impact. These technologies also facilitate the management and interpretation of this information, with Artificial Intelligence transforming smart agriculture by enabling data-driven decision-making, predictive analytics, and automation. Via the integration of realtime data from IoT sensors, drones, satellite imagery, weather stations, and other sources, digital twins provide a dynamic and data-driven model of farms in a sensor network, allowing the generation of automated integrated decision-making systems that consider the spatial variability of farms when making decisions related to each part of the farm and evaluating their effect.

### Guest Editor

#### Dr. Carlos Campillo

Centre for Scientific and Technological Research of Extremadura (CICYTEX), Department of Horticulture, Finca La Orden, Regional Government of Extremadura, Highway A-V, Km 372, 06187 Guadajira, Badajoz, Spain

### Deadline for manuscript submissions

25 February 2026



## Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/232499

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



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)