

Special Issue

Sensing Technology and Computer Vision for Precision Agriculture and Smart Farming

Message from the Guest Editor

Recent innovations in sensor technologies and artificial intelligence (AI) are transforming traditional agricultural practices into data-driven precision agriculture systems.

This Special Issue aims to explore the development, deployment, and application of advanced sensors and intelligent systems to enhance agricultural productivity, reduce environmental impact, and support sustainable farming practices. The integration of sensors with AI technologies has revolutionized how data is collected, processed, and utilized in precision agriculture.

The Special Issue will focus on both fundamental research and applied studies, providing insights into the challenges of sensor deployment in harsh outdoor environments, energy-efficient sensor design, and integration with IoT platforms for seamless data acquisition and management. Additionally, we welcome case studies that demonstrate the real-world impact of sensor-based technologies in improving agricultural practices. Keywords:

- precision agriculture
- AI in agriculture
- sensor technologies
- computer vision
- IoT-based monitoring
- remote sensing
- smart farming
- data analytics
- environmental monitoring

Guest Editor

Dr. Simone Pasinetti

Mechanical and Thermal Measurements Lab (MMTLab), Department of Mechanical and Industrial Engineering (DIMI), University of Brescia (UNIBS), 25123 Brescia, Italy

Deadline for manuscript submissions



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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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

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