

Special Issue

Remote Sensing of Plants, Soil, and Atmosphere for Agricultural Monitoring

Message from the Guest Editors

Improving food security is crucial as the world population continues to grow, and climatic changes' future impact on agriculture is still unknown. New and innovative methods are required to increase crop yields and improve agricultural sustainability. One of the main challenges in our era, marked by increasing data accessibility, is gathering important information that farmers and stakeholders can leverage to upgrade their agricultural management practices. For the past few decades, agrarian monitoring using remote sensing has been a practice that enriches agriculture, helping to increase crop yields while reducing agriculture's burden on the environment, and agricultural monitoring using remote sensing is continually being improved concomitantly. The SI will concentrate on the contribution of newer satellites, e.g., Sentinel and TROPOMI. We will consider research papers demonstrating how these new sensors improve plant biotic and abiotic stress detection, crop growth and yield predictions, and agricultural nutrient tracking and papers that present innovative uses of these satellites to enhance management practices.

Guest Editors

Dr. Oz Kira

The Environmental Sensing Laboratory, Department of Civil and Environmental Engineering, Ben-Gurion University of the Negev, Beer-Sheva 8410501, Israel

Prof. Dr. Asim Biswas

School of Environmental Sciences, University of Guelph, Guelph, ON N1G 2W1, Canada

Deadline for manuscript submissions

31 October 2025



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/143763

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)