Special Issue

Remote Sensing and IoT Application for Smart Agriculture

Message from the Guest Editors

The convergence of remote sensing (RS) and Internet of Things (IoT) technologies is revolutionizing agriculture by enhancing productivity, sustainability, and climate resilience. This Special Issue explores cutting-edge advancements in RS and IoT for smart agriculture, focusing on real-time monitoring, precision agriculture, and data-driven decision-making. High-resolution satellite imagery, drones, ground-based sensors, and IoT networks enable scalable solutions for crop health assessment, soil analysis, pest control, and irrigation optimization. Topics of interest include, but are not limited to, the following:

- Low-cost, energy-efficient IoT sensors for soil, crop, and environmental monitoring.
- AI/ML-driven fusion of remote sensing and IoT field data.
- Edge computing and lightweight AI for real-time agricultural analytics.
- Drone/UAV-based precision mapping for crop stress detection and yield estimation.
- Wireless sensor networks for smart irrigation and water management.
- Blockchain-enabled traceability in agricultural supply chains.
- .....

Guest Editors

Prof. Dr. Xihai Zhang

Dr. Xiangyu Meng

Prof. Dr. Yuan Rao

Deadline for manuscript submissions

31 May 2026

Journal of Sensor and Actuator Networks

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 9.4

mdpi.com/si/241074

Journal of Sensor and Actuator Networks
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jsan@mdpi.com

mdpi.com/journal/jsan

Journal of Sensor and Actuator Networks

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 9.4

mdpi.com/journal/jsan

About the Journal

Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

Editor-in-Chief

Prof. Dr. Lei Shu
1. College of Smart Agriculture (Artificial Intelligence), Nanjing Agricultural University, Nanjing 210031, China
2. School of Engineering, College of Science, University of Lincoln, Lincoln LN6 7TS, UK

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), dblp, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q1 (Control and Optimization)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 5.3 days (median values for papers published in this journal in the first half of 2025).

MDPI