

## Special Issue

# In-Field Detection and Monitoring Technology in Precision Agriculture—2nd Edition

### Message from the Guest Editors

This Special Issue intends to cover the state of the art and recent progress in different aspects related to in-field detection and monitoring technology in a wide range of agricultural fields (crops, grassland, fruit trees, water, agricultural products, etc.). All types of manuscripts (original research and reviews) providing new insights into the in-field detection and monitoring technology of agriculture are welcome. Articles may include, but are not limited to, the following topics:

- Detection and monitoring of within-field on-farm variability;
- Proximal and remote sensing of soils, crops, weeds, plant diseases, and insect pests;
- Vegetation parameter sensing and management;
- Crop models and decision support systems in PA;
- Agricultural sensors, robotics, and engineering;
- Plant, disease, and pest detection based on high-definition images, multispectral, hyperspectral, and sound waves;
- Precision plant protection;
- Water quality detection and monitoring;
- Wireless sensor networks, Internet of Things, big data, and databases in PA.

### Guest Editors

Dr. Xi Qiao

Dr. Shuo Zhang

Dr. Cong Wang

### Deadline for manuscript submissions

30 September 2025



## Agronomy

an Open Access Journal  
by MDPI

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/226868](https://mdpi.com/si/226868)

*Agronomy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto:agronomy@mdpi.com)

[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)





# Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)



## About the Journal

### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

*Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

---

### Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,  
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

---

### 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), PubAg, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)