

## Special Issue

# Machine Vision Systems in Digital Agriculture

### Message from the Guest Editors

#### Cutting-edge research:

- Robotic systems for agronomic data collection in the greenhouse and field.
- 3D vision technologies for robotic-optimized harvesting automation system.
- Multispectral and hyperspectral sensors for early abiotic and biotic stress early detection and recommendation system.
- Machine vision monitors greenhouse gas emissions and CO<sub>2</sub> and/or methane sequestration for climate and sustainable agriculture.
- More efficient machine vision-enabled targeted monitoring, precise fertilization, pesticide application, farmland irrigation, and sustainable cultivation.
- Satellite monitoring for disease control and yield prediction.

**What kind of papers we are soliciting:** Application of machine vision, digital agriculture for precision farming

---

#### Guest Editors

Dr. Zhanyou Xu  
Dr. Reka Howard  
Prof. Dr. Lizhi Wang

---

#### Deadline for manuscript submissions

closed (1 March 2023)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/104192](https://mdpi.com/si/104192)

*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), GEOBASE, PubAg, AGRIS, and other databases.

#### Journal Rank:

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