

## Special Issue

# Harvesting Robotics towards Smart Agriculture

### Message from the Guest Editor

As the population ages and the level of agricultural labor reduces, agricultural production costs are rising. Harvesting work with high labor intensity and low efficiency needs to be replaced by agricultural automation. Robotics and automation in agriculture can help to mitigate labor shortages and can improve agricultural productivity. The benefits of precision agriculture involve increasing crop yields and quality while reducing the environmental impact. But agricultural automation is limited by economic and technology barriers. Recently, with the improvement of the performance of agricultural robot systems and harvesting automation technology, they have been widely used in agricultural applications. These challenges related to the application of harvest automation in agricultural robots and precision agriculture are expected to be discussed in the Special Issue. We explore various methods of crop yield harvesting, the adaptation of big data and the application of inter-seasonal databases from different platforms in crop yield harvesting. We invite studies focusing on applications in harvesting methods, data fusion and the adaptation of big data to be submitted.

---

### Guest Editor

Dr. Baohua Zhang

College of Artificial Intelligence, Nanjing Agricultural University, Nanjing 210095, China

---

### Deadline for manuscript submissions

closed (25 April 2022)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.2



[mdpi.com/si/97991](https://mdpi.com/si/97991)

*Agronomy*

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 3.3  
CiteScore 6.2



[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 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)