

## Special Issue

# Three-Dimensional Imaging and Deep Learning for Agricultural Applications

### Message from the Guest Editors

This Special Issue aims to showcase innovative research on integrating 3D imaging and deep learning in crop phenotyping, exploring applications in trait extraction, dynamic growth monitoring, and physiological inversion. Articles may focus on but are not limited to the following topics:

- Three-dimensional data processing (reconstruction, denoising, and segmentation);
- Three-dimensional morphological trait extraction;
- Multimodal data fusion;
- Crop stress detection;
- Biomass estimation;
- Dynamic growth modeling;
- Smart breeding.

### Keywords

- 3D imaging
- deep learning
- 3D data processing
- point cloud
- LiDAR
- crop phenotyping
- precision agriculture
- smart breeding

---

### Guest Editors

Dr. Ziran Ye  
Dr. Dedong Kong  
Dr. Qing Gu

---

### Deadline for manuscript submissions

30 November 2026



**AgriEngineering**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.0**  
**CiteScore 4.7**



[mdpi.com/si/259317](https://mdpi.com/si/259317)

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

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





# AgriEngineering

an Open Access Journal  
by MDPI

Impact Factor 3.0  
CiteScore 4.7



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



## About the Journal

### Message from the Editor-in-Chief

---

#### Editor-in-Chief

Dr. Mathew G. Pelletier

Retired Scientist from Agricultural Research Service, United States  
Department of Agriculture, Lubbock, TX, USA

---

#### Author Benefits

##### High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, FSTA, AGRIS, CAPlus / SciFinder, and other databases.

##### Journal Rank:

JCR - Q2 (Agricultural Engineering) / CiteScore - Q1 (Horticulture)

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.6 days after submission; acceptance to publication is undertaken in 5.4 days (median values for papers published in this journal in the first half of 2025).