

Special Issue

Machine Vision Applications in Crop Harvesting and Quality Control

Message from the Guest Editors

The Special Issue "Machine Vision Applications in Crop Harvesting and Quality Control" explores cutting-edge advancements in automated agricultural technologies, focusing on the integration of machine vision systems to enhance efficiency and precision in crop harvesting and post-harvest quality assessment. Contributions highlight innovative approaches such as deep learning, hyperspectral imaging, and robotic automation for tasks including fruit/vegetable detection, yield estimation, defect identification, and grading. These technologies address critical challenges in modern agriculture, such as labor shortages, resource optimization, and sustainability, by enabling real-time, non-destructive monitoring and decision-making. By bridging the gap between theoretical research and practical implementation, this collection aims to accelerate the adoption of smart farming practices, ultimately improving productivity, reducing waste, and ensuring food security in a rapidly evolving agricultural landscape.

Guest Editors

Dr. Ke Zhang

Dr. Xiaodong Bai

Dr. Jiayi Zhang

Dr. Jibo Yue

Deadline for manuscript submissions

15 March 2026



AgriEngineering

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 4.7



mdpi.com/si/233705

AgriEngineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).