

Special Issue

Machine Vision and Unmanned Systems for Data-Driven and Sustainable Agricultural Monitoring and Management

Message from the Guest Editors

This Special Issue aims to collect cutting-edge research contributions, methodological developments, and practical applications related to the use of machine vision and unmanned systems for agricultural monitoring, decision-support processes, and autonomous field operations. Topics of interest include precision agriculture, crop and environmental monitoring, biodiversity assessment, yield prediction, and resource optimization, with a focus on sustainability and automation.

- machine vision
- unmanned systems
- precision agriculture
- agricultural monitoring
- autonomous robotics
- decision support
- deep learning
- computer vision
- UAV
- UGV
- environmental monitoring
- biodiversity assessment
- ecosystem health
- sustainable farming systems
- artificial intelligence

Guest Editors

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Deadline for manuscript submissions

31 May 2027



AgriEngineering

an Open Access Journal
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Impact Factor 3.0
CiteScore 4.7



mdpi.com/si/277794

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About the Journal

Message from the Editor-in-Chief

AgriEngineering (ISSN 2624-7402) is an international open access, open-source, and cross-disciplinary scientific journal on the engineering science of agricultural and horticultural production. Our aim is to encourage scientists to publish their experimental and theoretical research, along with the full set of schematics, source-code, and mechanical design models leading to accelerated and rapid dissemination of leading-edge technologies emerging in agricultural, environmental, and agronomic engineering. *AgriEngineering* publishes articles, technical notes, reviews, commentaries, and case/field reports, as well as Special Issues on particular subjects.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 22 days after submission; acceptance to publication is undertaken in 6.3 days (median values for papers published in this journal in the second half of 2025).