

## Special Issue

# Strategic Automation and Crop Management for Climate-Smart and Resilient Agriculture

### Message from the Guest Editor

Ensuring sustainable agricultural production in the face of increasing climate variability, resource constraints, and ecological degradation is one of the foremost challenges of our time. Traditional cropping systems are becoming increasingly vulnerable to erratic weather, declining soil health, pest and disease pressure, and inefficiencies in input use. To build resilience in modern agriculture, we need a strategic shift from reactive practices to proactive, data-informed crop management. This Special Issue aims to advance the scientific and engineering discourse on how sensor-based automation, intelligent decision support, and innovative crop management practices can collectively foster more adaptive, efficient, and resilient agricultural systems. We invite original research articles, reviews, and case studies that explore the development, testing, and application of automation systems, sensing technologies, and modeling tools, especially in the context of diversified cropping systems such as cover cropping and intercropping. A particular focus is placed on solutions that are accessible and scalable for smallholder and resource-constrained farming operations.

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### Deadline for manuscript submissions

31 October 2026



**AgriEngineering**

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**Impact Factor 3.0**  
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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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## Editor-in-Chief

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### High Visibility:

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### Journal Rank:

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

### Rapid Publication:

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).