

Special Issue

Application of Remote Sensing and Machine Learning in Precision Agriculture

Message from the Guest Editors

This Special Issue, "Application of Remote Sensing and Machine Learning in Precision Agriculture," aims to present recent methodological developments and practical applications that exploit remote sensing data and machine learning techniques to enhance agricultural productivity and sustainability. Original research articles are welcome. Topics of interest include, but are not limited to:

- Machine learning and deep learning methods for agricultural remote sensing;
- Crop growth monitoring, phenology analysis, and yield prediction using satellite and UAV data;
- Detection of crop stress, diseases, pests, and water or nutrient limitations;
- Soil property mapping and soil-crop interactions using remote sensing and ML;
- Precision irrigation and nutrient management supported by remote sensing analytics;
- Multisensor and multiscale data fusion (optical, hyperspectral, thermal, SAR, LiDAR);
- Time-series analysis of cropland dynamics and management practices;
- Model validation, benchmarking, uncertainty analysis, and operational case studies.

Guest Editors

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Deadline for manuscript submissions

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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).