Special Issue

Sustainable Farming: New Agricultural Technology in Precision Agriculture

Message from the Guest Editors

From this perspective, this Special Issue, titled "Sustainable Farming: New Agricultural Technology in Precision Agriculture", will bring together research contributions that explore the integration of technological, analytical, and environmental dimensions in modern farming. The articles selected for this Special Issue present advances in the acquisition, processing, and interpretation of spatial data, highlighting how geoinformation and computational models can improve the monitoring and management of productive areas. The main themes include the following:

- The integration of multisource data for agricultural decision-making;
- The use of satellite and drone imagery, as well as sensor networks, for crop and soil analysis;
- Development of algorithms and models for spatial data interpretation;
- Digital platforms and software supporting the implementation of precision agriculture;
- Geospatial and temporal analysis applied to productivity and sustainability;
- Artificial intelligence, big data, and machine learning techniques applied to agricultural optimization.

Keywords

- sustainable farming
- precision agriculture
- remote sensing
- agricultural technology
- geospatial data
- smart agriculture

Guest Editors

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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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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).

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