

## Special Issue

# Research Progress and Challenges of Agricultural Information Technology

### Message from the Guest Editors

The use of technology in the agricultural industry has seen significant progress in recent years, with new developments in precision farming, data management, and automation. However, the integration of technology into the agricultural sector also presents numerous challenges. This Special Issue focuses on the research progress and challenges of agricultural information technology, and explore the latest developments and innovations in this rapidly evolving field. The Special Issue will feature original research articles, review articles, and case studies on the application of GIS and remote sensing technology in agriculture, covering but not limited to the following topics:

- The use of GIS and remote sensing to develop precision agriculture systems
- The integration of GIS and remote sensing data with other agricultural data sets
- The application of GIS and remote sensing in crop monitoring and yield prediction
- The role of GIS and remote sensing in natural resource management, including water, soil, and biodiversity conservation
- The use of GIS and remote sensing to study the impacts of climate change on agriculture

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### Guest Editors

Dr. Fatwa Ramdani  
Dr. Riswan S. Sianturi  
Dr. Adi Wibowo

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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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## Editor-in-Chief

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### 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).