

Special Issue

Digital Transformation in Agriculture for Enhanced Food Security

Message from the Guest Editor

As the global demand for food continues to rise, the integration of advanced digital technologies into agricultural systems presents a transformative opportunity to optimize resource use, enhance productivity, and build resilience against environmental and economic uncertainties. IoT, AI, big data, and blockchain revolutionize farming, improving efficiency and sustainability. This Special Issue explores advancements and policy implications of digital agriculture, aiming to foster innovation and sustainable development for global challenges. We welcome submissions on:

- Applications of IoT, AI, and big data in precision agriculture.
- Blockchain technology for supply chain transparency and traceability.
- Digital tools for climate-smart agriculture and resilience.
- Policy and institutional frameworks supporting digital innovation in agriculture.
- Socioeconomic impacts of digital transformation on farmers and rural communities.

We encourage researchers, policymakers, and practitioners to contribute original research, reviews, and case studies that advance understanding of digital transformation in agriculture.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2025)



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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

Editor-in-Chief

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