

## 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.

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### Guest Editor

Prof. Dr. Shi Min

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### Deadline for manuscript submissions

30 September 2025



## Agriculture

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## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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### Editor-in-Chief

Prof. Dr. Les Copeland

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