Special Issue

Innovations in Smart and Safe Agriculture: Drone Technologies, Path Optimization, and Monitoring Systems

Message from the Guest Editors

With the rapid development of smart agriculture, the use of drones for smart agriculture, combined with path optimization and monitoring systems, provides farmers with powerful tools to optimize their farming practices and offers actionable insights to enhance crop productivity. This Special Issue, titled 'Innovations in Smart and Safe Agriculture: Drone Technologies, Path Optimization, and Monitoring Systems', aims to showcase cutting-edge research on drone technologies and applications in smart agriculture. We invite authors to submit their work on experimental (laboratory, pilot, or actual-scale) and analytical methods. Potential topics include, but are not limited to, the following:

- AI-based monitoring systems for agriculture;
- Object detection in crop management;
- Unmanned Aerial Vehicles for smart spraying and monitoring;
- Development and evaluation of variable-rate spraying technologies;
- IoT and edge intelligence applications in agriculture;
- Computer vision for agricultural monitoring and analysis;
- Cybersecurity in smart farming;
- Path optimization in smart farming.

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Editor-in-Chief

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Retired Scientist from Agricultural Research Service, United States Department of Agriculture, Lubbock, TX, USA

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.6 days after submission; acceptance to publication is undertaken in 5.4 days (median values for papers published in this journal in the first half of 2025).