

Special Issue

Plant-Based, Proximal, and Remote Sensing Techniques in Horticultural Crop Production

Message from the Guest Editors

The aim of this Special Issue is to bring together recent advances and practical applications of remote sensing and digital technologies in agriculture. We encourage submissions that showcase novel methodologies, sensor integration, modeling approaches, and data analysis techniques that contribute to improving the efficiency and environmental performance of agri-food systems.

Particularly welcome are interdisciplinary studies and case studies that explore applications across diverse agroecosystems and demonstrate real-world impact.

We invite original research articles, reviews, and case studies focusing on, but not limited to, the following topics:

- Remote sensing for crop monitoring and modeling;
- UAV and IoT applications in precision agriculture;
- Irrigation optimization through digital technologies;
- Soil property assessment and spatial variability analysis;
- Early detection of pests and diseases;
- Yield estimation and predictive modeling;
- Integration of geospatial and ground-based data for agricultural decision-making;
- Contributions to sustainable agri-food systems through digital innovation.

Guest Editors

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Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



mdpi.com/si/250569

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About the Journal

Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

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