

Special Issue

Application of Multi- and Hyperspectral Imaging Technologies in Horticultural Production

Message from the Guest Editors

Technological advances in multi- and hyperspectral imaging technologies are transforming horticultural production by enabling detailed and non-invasive monitoring of crop status. These approaches enable the accurate assessment of plant health, optimize resource use, reduce chemical inputs, and minimize environmental impact. This Special Issue aims to provide a platform for the latest research and reviews on the application of multi- and hyperspectral imaging in horticulture. We welcome contributions that cover the following topics: - Employ remote and proximal sensing for crop monitoring, management, and modeling; - Advances in image acquisition, analysis, and data interpretation specific to multi- and hyperspectral data for horticulture; - Integration of imaging technologies with Artificial Intelligence (AI), Internet of Things (IoT), and precision agriculture tools; - Comparative assessments of multispectral versus hyperspectral approaches for horticultural monitoring; We invite researchers to submit original articles and comprehensive reviews exploring how these cutting-edge technologies are transforming horticultural production.

Guest Editors

Dr. Pasquale Campi

Dr. Simone Pietro Garofalo

Dr. Beatriz Lorente Pagán

Dr. Giuseppe Lopriore

Deadline for manuscript submissions

10 February 2026



Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



mdpi.com/si/249688

Horticulturae
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
horticulturae@mdpi.com

[mdpi.com/journal/
horticulturae](https://mdpi.com/journal/horticulturae)





Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



[mdpi.com/journal/
horticulturae](https://mdpi.com/journal/horticulturae)



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

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and
Technologies (DiSTeBA), Salento University, Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, FSTA, and other databases.

Journal Rank:

JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)