# **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**

### Dr. Fabricio Macedo

- ISOPlexis Centre of Sustainable Agriculture and Food Technology, University of Madeira, Campus da Penteada, 9020-105 Funchal, Portugal
- Centre for the Research and Technology of Agroenvironmental and Biological Sciences, CITAB, Inov4Agro, Universidade de Trás-os-Montes e Alto Douro, UTAD, Quinta de Prados, 5000-801 Vila Real, Portugal

#### Dr. Adélia Sousa

MED—Mediterranean Institute of Agriculture, Environment and Development & CHANGE—Global Change and Sustainability Institute, Remote Sensing Laboratory—EaRSLab, Department of Rural Engineering, School of Science and Technology, University of Évora, Ap. 94, 7002-544 Évora, Portugal



## Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 5.1



mdpi.com/si/250569

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

mdpi.com/journal/ horticulturae





## Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 5.1



### **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)

