

Special Issue

Precision Management Strategies for Orchards and Vineyards

Message from the Guest Editors

Precision orchard management increasingly relies on the integration of advanced technologies to effectively capture spatial and temporal variability. Tools such as remote and proximal sensing, plant-based sensors, computer vision, and crop modeling contribute to a more informed and adaptive management of fruit trees and vineyards. These technologies enable the assessment of key physiological indicators, and support timely decisions throughout the growing season. A comprehensive approach also involves soil characterization, multivariate analysis, and the delineation of site-specific management zones, allowing for a more precise allocation of inputs and resources. Of particular interest are contributions employing data fusion strategies and machine or deep learning techniques to integrate multisource datasets and support operational decision-making. Relevant topics include yield and quality estimation, early stress detection, and the implementation of digital platforms for precision horticulture. By showcasing scalable and effective solutions, this Special Issue fosters innovation and supports the transition toward more resilient and resource-efficient orchard and vineyard systems.

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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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