



Remote Sensing and Decision Support for Precision Orchard Production

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Message from the Guest Editors

Smart orchard is a new generation of orchard production system relying on smart sensing, smart decision, and smart intervention, targeted to optimize agronomic inputs and resilience, and improve yield/quality and production efficiency. The evolution of remote sensing techniques has opened new perspectives for supporting orchard production and management. The enhanced spectral, spatial, and temporal resolution of various sensors (i.e., multi/hyperspectral, LiDAR, thermal, and fluorescence) on board platforms (spaceborne, airborne, UAVs, vehicle, robots, and backpack) offers unprecedented possibilities for efficient orchard monitoring at different application scales and purposes. The link of the remote sensing technology and orchard agronomic model is expected to support intelligent decisions regarding fertilizer, water, and chemical inputs, optimizing and predicting fruit yield and quality. To accelerate the transition from traditional orchard production to smart orchard, this Special Issue aims at providing the state-of-the-art of remote sensing techniques for orchard management, with a special focus on operational applications targeted to the needs of the final users.





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Message from the Editor-in-Chief

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