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Application of Remote Sensing in Orchard Management

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Timely management decisions rely on accurate and detailed information on crop vitality and productivity. Remote sensing is increasingly considered a reliable information source, with many operational applications emerging to assist farmers in their daily management. However, these are mainly focused on annual, monoculture crops. For perennials such as fruit orchards, extracting the required information from remote sensing data sources has proven to be much more difficult. These difficulties can be attributed to a variety of reasons, such as the influence of the background due to the sparse coverage of the trees, the complexity of the tree structure which results in undesired effects such as variable illumination, as well as the carry-over effects of stressors over multiple growing seasons.

This special issue will focus on new and innovative solutions which help to overcome these issues, and enable remote sensing to be a useful and indispensable tool to inform farmers on the vitality and productivity of the trees in fruit orchards, and/or on the variability in soil properties to better understand within-field variability.

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Message from the Editor-in-Chief

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