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Precision Management of Fruit Trees

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Deadline for manuscript submissions:
closed (20 May 2022)

Message from the Guest Editors

Under a global climate change, plants will be facing increasing abiotic and biotic constraints. We have to expect a rise in average daily temperatures, atmospheric CO_2 concentration, soil salinity in some areas, and water stress by drought or floods. Climate change can significantly alter plant functioning and productivity, affecting crop management sustainability and ultimately the whole food economy. Today's technological advancements offer an excellent opportunity for the precise management of fruit trees aiming at the highest production quality and efficiency. New generation sensors exist and can be further implemented for the precise management of a number of operations both in the field (irrigation, nutrition, pest control, pruning, harvesting, etc.) and during post-harvest processing.

Further investigations and good knowledge sharing across the areas of horticulture, basic plant physiology, and engineering are required in order to improve fruit tree management by optimizing water, nutrients, and chemical inputs. Precise and automated systems will have to represent the future for a modern and sustainable fruit production.

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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.

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