Special Issue

Sensors and Remote Sensing in Precision Horticulture

Message from the Guest Editors

Precision horticulture is a data-driven management method that collects site- or plant-specific information about fruits and vegetables to improve production and postharvest process management. Precision horticulture is particularly advantageous to the farmer due to the high value of their products and the high quantities of crop inputs required to produce horticultural crops. Any cost reduction significantly boosts producer profits and effective utilization of crop inputs may lessen the environmental impact of horticultural crop production.Precision horticulture implementation relies primarily on sensors and systems that can collect weather, soil, and plant-specific data at a reasonable cost. Optical sensors are the most prevalent, and many approaches have demonstrated the promise for effective, quick, non-invasive in-situ disease diagnosis and yield estimate. The most common applications are biotic and abiotic stress detection at asymptomatic or early stages, canopy size and density, yield estimation, and crop quality, among other data.

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