Special Issue

Application of Non-Contact Detection and Artificial Intelligence Techniques to Estimate Quality and Longevity of Horticultural Plants

Message from the Guest Editor

Rapid and accurate horticultural product quality assessment is becoming increasingly important as e-commerce continues to expand globally. Recently, non-contact detection (NCD) techniques, including hyperspectral photography, thermography, and NIR spectrometry, have become widely applied for assessing crop quality attributes. Artificial intelligence (AI) techniques, including deep learning based on algorithms, have also been employed to develop assessment methods because they can predict specific factors based on images obtained using NCD methods. Converging interdisciplinary research involving plant science and AI techniques is becoming increasingly important as it provides creative solutions to develop rapid and accurate tools that can classify horticultural products for quality assurance systems. This Special Issue of *Plants* deals with the application of NCD methods and AI models to assess as well as predict external and internal quality factors in horticultural plants.

Guest Editor

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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