Special Issue

3D Phenotyping for Plant Breeding and Management

Message from the Guest Editors

Plant genotyping and phenotyping technologies have significantly accelerated plant breeding and management; however, compared with the rapid development of genotyping technologies, the inability to efficiently and accurately capture complex phenotypic traits has become a bottleneck, limiting progress in breeding programs. Structural and morphological phenotypes are basic and intuitive means of evaluating crop growth and development, composing a group of important agronomist trait concerns. With the development of LiDAR, the three-dimensional (3D) scanner, depth camera, and multi-view stereo reconstruction algorithms, acquiring 3D data of plants has become easy and low-cost, 3D plant phenotyping having become an emerging research area in plant phenomics. This Special Issue plans to collect recent advances in 3D plant phenotyping promoting the development of plant breeding, cultivation, and management, aiming to provide selected contributions regarding advances in algorithms, platforms, and applications of 3D plant phenotyping.

Guest Editors

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Deadline for manuscript submissions

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Editor-in-Chief

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