Special Issue

Technological Innovation for Measurements on Crop Physiological and Agronomic Traits

Message from the Guest Editor

The development of novel techniques in agriculture are playing key roles for faster and automated measurements of crop physiological and agronomic traits for breeding of improved crop varieties. These advancements are increasing the precision, accuracy, and throughput of data collection, while reducing costs and resource usage, as well as improving our understanding of novel crop traits previously unexplored due to method or resource constraints. In this Special Issue, we aim to cover advanced digital, automated, and reliable measurements and data analytics for traits such as growth (e.g., biomass, growth rate, yield), morphological (plant height, area, branching, architecture), phenological (growth stages), plant health (greenness, senescence), and physiological (canopy temperature, chlorophyll, nitrogen, photosynthesis). These measurements are deployed in crops under various scenarios, including but not limited to biotic and abiotic stress tolerance, increasing nutrient use efficiency, crop monitoring, and yield and quality improvement.

Guest Editor

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