Special Issue

Smart Agriculture for Crop Phenotyping

Message from the Guest Editors

This Special Issue is dedicated to exploring the latest advancements in smart agriculture technologies for crop phenotyping. We aim to integrate interdisciplinary innovations across artificial intelligence (AI), machine learning, hyperspectral imaging, drone-based remote sensing, and robotic automation. By enabling high-throughput, non-invasive phenotyping data collection and intelligent analytics, these cutting-edge technologies empower researchers to decode dynamic crop growth patterns, stress-resilience traits, and genotype-phenotype associations with unparalleled precision. This, in turn, accelerates crop breeding cycles and optimizes field management practices, offering a promising pathway to enhance agricultural productivity and sustainability in an era of global challenges.

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