

Special Issue

Model-Assisted and Computational Plant Phenotyping

Message from the Guest Editors

Plant system modelling refers to quantitative representation, integration, and simulation for eco-physiological processes at different scales ranging from cell to population using mathematical approaches. The accurate proxy to fundamental traits makes it possible to feed input parameters to models with a high resolution in both space and time, improving the capability of predicting functional traits in multiple environments. This Special Issue plans to collect recent advances in model-assisted and computational plant phenotyping approaches and applications to promote plant breeding, cultivation, and management. Potential topics include, but are not limited to:

- Novel approaches to estimate observable and computational phenotypes.
- Model-assisted phenotyping approaches to identify traits that cannot be directly observed.
- High-throughput platforms to assist in estimating computational plant traits.
- Crop models/functional-structural plant models for time-series plant phenotyping.

Guest Editors

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Deadline for manuscript submissions

closed (15 December 2023)



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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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