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, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

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