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

Prof. Dr. Xinyu Guo

Prof. Dr. Youhong Song

Dr. Weiliang Wen

Deadline for manuscript submissions

closed (15 December 2023)

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 6.3

mdpi.com/si/123970

Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

mdpi.com/journal/agriculture

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 6.3

mdpi.com/journal/agriculture

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)