



Crop Models for Agricultural Yield Prediction under Climate Change

Guest Editors:

Prof. Dr. Wen-Shin Lin

Department of Plant Industry,
National Pingtung University of
Science and Technology,
Pingtung 912, Taiwan

Dr. Yun Yang Chao

Department of Plant Industry,
National Pingtung University of
Science and Technology,
Pingtung 912, Taiwan

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editors

The stability of the crop yield and cultivation methods in the agricultural cultivation management process are seriously resulted from climate changes. Generally, the impact of climate change on agricultural production can be broadly categorized into climate warming, CO₂ concentration increasing, frequency of extreme weather, water shortage, etc., gradually affect the crop growth patterns, cultivation management systems, agricultural environmental biodiversity, etc.

Therefore, researchers have conducted research on many aspects, including crop breeding, irrigation management, soil improvement, growth period regulation, ecosystem protection, early warning mechanisms for crop pests and diseases, and the utilization of agricultural climate information, etc. Furthermore, Predictive and warning mechanisms and models are important research areas for future efforts to combat climate change.

In this special issue, we will focus on the latest research in the Crop Models field. By collecting and utilizing various climate and environmental data, phenotypic data, spectral data, crop physiological data, etc., forecast models for crop yield and growth status.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

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, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi