Simulation of Crop System Response and Adaptation to Climate Change

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Deadline for manuscript submissions:
closed (25 February 2024)

Message from the Guest Editors

The motivation behind this *Agriculture* Special Issue is to simulate crop system repsonses to climate change in order to identify key strategies for mitigation and adaptation. Therefore, we expect to obtain, from experts in the field, explanations as to how to apply modeling approches (e.g., process-based models, general crop response algorithms, machine learning techniques, and data assimilation technologies) to predicting crop system responses (e.g., crop development, growth, yield, grain quanlity, soil carbon, and greenhouse emissions) to climate change (particularly extreme climates, e.g., excessive rainfall, extreme heat, extreme cold, wildfires, droughts, storms, and floods), as well as explore the strategies for mitigation and adaptation, in this Special Issue. We believe that this Special Issue will be a unique opportunity to highlight one of the main themes of next-generation crop modeling, the new understanding of crop system responses to climate change, and key challenges in adapting to climate change, enabling agricultural decision making under climate change.

mdpi.com/si/181335

Special Issue

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Message from the Editor-in-Chief

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