Special Issue

Crop Models for Agricultural Yield Prediction under Climate Change

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 ffield. 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.

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