Special Issue

Progress in Plant Bioclimatic Modelling under Global Climate Change

Message from the Guest Editor

Climate change has put great pressure on food security around the world. This is because climate change, including varied rainfall patterns, coupled with climate warming, increased frequency and intensity of extreme weather–climate events (e.g. heat stress), can adversely affect plant production in many parts of the world. Developing robust plant bioclimatic models is critical in quantifying the impacts of climate change on plant productivity. Such models can help farmers, research scientists and policymakers to develop efficient agronomic strategies that maintain and increase plant productivity under climate change. With this Special Issue of *Agronomy*, we seek integrative studies that shed light on new, developed or improved models to better understand the interaction of plant growth and environmental conditions under climate change, as well as reviews that offer original perspectives on different kinds of models developed in response to climate change in agricultural systems. Articles highlighting the use of plant bioclimatic modelling to mitigate climate change with different agronomic options are also welcome.

Guest Editor

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