

Special Issue

Recent Advances in Modelling Climate Change Impacts on Cropping Systems

Message from the Guest Editors

Climate change and variability can be characterized by an increasing CO₂ level, rising temperatures, and altered regional precipitation patterns, accompanied by more frequent and intense extreme weather events. This brings numerous risks to agricultural and crop production. Crop and climate models are essential tools to assess climate change impacts and explore possible adaptation options, providing vital information for decision-making by local stakeholders. However, uncertainties in choosing appropriate future greenhouse gas emissions, climate model projections, downscaling methods, and crop model structures and parameters, make climate risk assessment highly uncertain. Accurate and robust assessments require innovative approaches to quantify and reduce these uncertainties. This Special Issue seeks interdisciplinary studies using novel methods to address uncertainties during climate change risk assessments. We especially welcome submissions exploring climate projections at different spatial-temporal scales and considering interactions between crop genotype, environmental and management factors. The call is open for original research articles and reviews.

Guest Editors

Dr. Chenyao Yang

Dr. Andrej Cegljar

Dr. Joao Carlos Andrade dos Santos

Deadline for manuscript submissions

closed (20 February 2024)



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

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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

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