# Special Issue

# Optimizing Crop Management Strategies for Climate Resilience Using Advanced Modeling Techniques

# Message from the Guest Editors

The climate is already changing, increasing the likelihood of multiple climate-induced risks affecting agricultural production. With more frequent and severe extreme weather, the challenge for 21st-century agriculture is achieving food security for a growing world population. Addressing agricultural challenges and managing agroecosystems will impact several Sustainable Development Goals (SDGs), including Zero Hunger (SDG 2), No Poverty (SDG 1), Good Health and Well-being (SDG 3), and Climate Action (SDG 13). Optimizing crop management can achieve higher productivity and economic efficiency than conventional methods. Proposing and evaluating strategies to improve crop climate resilience is crucial. Modelling, as a tool for understanding climate impacts and adaptation options, is essential for exploring agricultural adaptations to climate change. This Special Issue links experiments with statistics and ecophysiological crop modelling for comprehensive assessments of agricultural impacts and adaptations. It covers optimizing crop management strategies for climate resilience, considering biophysical and socioeconomic factors. All article types are welcome.

#### **Guest Editors**

Prof. Dr. Dengpan Xiao

College of Geography Science, Hebei Normal University, Shijiazhuang 050024, China

Dr. Huizi Bai

Engineering Technology Research Center, Geographic Information Development and Application of Hebei, Institute of Geographical Sciences, Hebei Academy of Sciences, Shijiazhuang 050011, China

# Deadline for manuscript submissions

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

mdpi.com/journal/agriculture





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# **About the Journal**

## Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. Agriculture is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

### 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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