# Special Issue

# Precision Agricultural Water Management and Water Use Efficiency Assessment

### Message from the Guest Editors

Agricultural systems are vulnerable to climatic variability. In the coming decades, it is projected that the spatiotemporal variation of precipitation will have a devastating impact on the spatiotemporal distribution of water resources, leading to severe floods or droughts. Precision agriculture water management based on a regional agricultural water supply and the improvement of agricultural water efficiency are important measures to achieve a high yield and stable production. With the fast development of sensors and computer and communication technologies, the nondestructive and timely assessment of crop water requirements has become a new research direction. Many scholars have conducted many studies on crop water information perception, water use estimation and regional water management based on Big Data and deep learning, obtaining new findings and developing new technologies in the process. This Special Issue focuses on the research advances in precision agricultural water management and the theoretical and technological assessment of water efficiency. This Special Issue aims to collect original, high-quality research and review articles.

### Guest Editors

Prof. Dr. Jinglei Wang

Prof. Dr. Baozhong Zhang

Prof. Dr. Yufeng Luo

### Deadline for manuscript submissions

closed (1 November 2022)


**Water**

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# About the Journal

## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

## Editor-in-Chief

Dr. Jean-Luc PROBST
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