Special Issue

Advanced Earth Observation Technologies for Sustainable Irrigation Water Management

Message from the Guest Editor

With the growing population and the consequent need to extract more resources for food production, sustainable irrigation management has become a priority for modern agriculture. To address this issue, it is essential to adopt sustainable water management by aiming for greater efficiency in the use of water in agriculture, through integrated management practices. In this view, Earth Observation (EO) techniques offer valuable tools for monitoring and managing irrigation systems across different spatial and temporal scales. In this Special Issue, we invite the submission of papers on the development of operational tools and services utilizing Earth Observation data for managing water resources in agriculture, with a particular emphasis on optimizing irrigation. Integrated approaches involving active and passive sensors, in situ sensors, and modelling techniques are increasingly being implemented to manage agricultural water resources effectively. This Special Issue aims to demonstrate that research advancements are being translated into practical applications that address everyday practices and problem-solving, from the farm level to the basin scale.

Guest Editor

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Message from the Editor-in-Chief

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