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Modelling and Management of Irrigation System

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Message from the Guest Editors

Irrigated agriculture will face important challenges in the coming decades. The evolution of irrigation systems to pressurized ones, makes energy another key resource for the irrigation sector, which represents a growing percentage of the total water costs and increases the carbon footprint of irrigation activities.

In this situation, irrigation is becoming an activity of precision, in which the modeling techniques, both at the water distribution network and the plot scale, as well as other aspects related to new management strategies, such as big data techniques, sensors, unmanned aerial vehicles (UAV) and new technologies in general, are becoming more relevant every day. A better control of the irrigation process, as well as a better management of pressurized irrigation networks, are essential to convert irrigation to a precision activity. These facts highlight the need to improve efficiency in the water–energy nexus, essential for economic, social and environmental development of the sector.

This Special Issue aims to provide a space for discussion, and welcome novel approaches in modelling and management techniques for irrigation systems.

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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.

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