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Sustainable Irrigation Management in Agriculture

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Message from the Guest Editors

Agriculture is the largest water-use sector worldwide, accounting for about 70% of water withdrawals from rivers and aquifers and 90% of consumptive water uses. The development of irrigated agriculture has boosted agricultural yields and contributed to price stability, making it possible to feed the world’s growing population. However, irrigation is facing increasing competition from the domestic and industrial sectors as the pressure on water resources increases, to the point that in many regions it is becoming a threat to the environment.

This Special Issue encourages the topics in sustainable irrigation management areas include but are not limited to the following: optimise hydraulics systems behaviour, meteorological forecasts for planning irrigation, saving water techniques, irrigation scheduling optimisation, groundwater management, effective management of salts, soil salinity, and shallow groundwater and water footprint. Other emerging fields are welcome, such as Big data, Artificial intelligence, new communication systems (LoraWan, Sigfos) and advanced sensing technologies oriented to sustainable irrigation management in agriculture.



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Special Issue



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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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