Special Issue

Precision Agriculture and Irrigation

Message from the Guest Editor

Farming is the dominant water consumer, as it uses the 70% of available fresh water. Demands on agricultural water supplies are likely to increase over time. While substantial technological innovation has increased the efficiency of irrigated agriculture over the past several decades, significant potentials exist for continued improvement. At least half of irrigated cropland acreage all over the world is still irrigated with less efficient, traditional irrigation application systems. Farmers are used to overusing the available fresh water. However, during the last decade, ground water has been depleting at an alarming rate in many agriculture areas, while the increasing levels of industrial activity demand huge amounts of fresh water. If irrigated agriculture is to survive this competition, new irrigation practices and tools should be developed for more efficient water use. Papers for this Special Issue should be focused on how technology, precision agriculture, big data management, irrigation strategies and decision support tools can help farmers increase the water use efficiency of irrigation, protect the environment and increase their profits.

Guest Editor

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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.

Editor-in-Chief

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