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.
Message from the Editor-in-Chief

The relevance of water in human development and sustaining life, fuels general and scholarly interest in the world’s water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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