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Water Management Using Drones and Satellites in Agriculture

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Deadline for manuscript submissions:
closed (30 December 2018)

Message from the Guest Editors

Dear Colleagues,

The use of drones and satellites in agriculture is a reality, although we are currently at the crossroads of quickly and efficiently exploiting the information obtained to render it useful to farmers, selecting the most appropriate and versatile tool for each situation. In this sense, water management is one of the key issues in agriculture in which these new technologies can provide solutions, such as where to manage irrigation water, maximizing its efficiency, adapting crops to climate change, and facilitating the worldwide increase of food production. This improvement of productivity should be linked to the assurance of the quality of the final product, by using less inputs (water and nutrients), thus, maintaining soil and water resources, and vegetal material. The use of aerial images, after being processed through different statistical techniques, combined with ground-based remote sensors, are key lines for future research in which new solutions and applications must be proposed, combining the number of techniques currently available.

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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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