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Satellite Application on Support to Water Monitoring and Management

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Deadline for manuscript submissions:
closed (1 May 2019)

Message from the Guest Editors

There is an increasing interest in using satellite data and products to study and monitor a large fraction of the processess involving water in the atmosphere and on the Earth's surface. Precipitation characteristics, soil moisture, snow/ice parameters, water quality, and lake and river levels can be observed when studied from a satellite's point of view, often with direct operational use or coupled with ground-based data or numerical models. The aim of this Special Issue is to collect papers on the use of satellite data and products to monitor all the processes involving water in the Earth's system. In particular, we welcome studies on the validation of satellite products of algorithms after comparison with independent datasets; hybrid strategies for the use of satellite data in synergy with ground-based data (including low-cost sensors and crowdsourcing) and numerical modeling; applications to regions where ground observations are scarce or unreliable; cross-cutting applications to sustainability and resilience issues; and the use of new algorithms for parameter extraction from multiplatform data.

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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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