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Observation-Driven Understanding, Prediction, and Management in Hydrological/Hydraulic Hazard and Risk Studies

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Message from the Guest Editors

Dear Colleagues,

This inter-Journal (*IJGI/Water*) Special Issue seeks to promote new and innovative studies, experiences, and models, in an effort to improve water resources management through the implementation of new algorithms, measurement systems, and Earth observation (EO) data. Challenges posed by contemporary issues such as climate change, population pressure, and increasingly complex social interactions have led to increased usage of geo-information in different phases of water resources management. Real-time access to data and the use of high-resolution spatial information provided by EO-based applications and environmental monitoring techniques have several advantages over traditional fieldwork expeditions. These include safety, the obtention of a synoptic view of the region of interest, data availability extending back several years and, in many cases, cost savings. Fortunately, the advent of new and more powerful sensors (e.g., UAVs, SAR, Lidar, GPS, citizen) provides an opportunity to image, assess, and quantify water resources management more comprehensively than ever before.



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Special Issue



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Message from the Editor-in-Chief

The *ISPRS International Journal of Geo-Information* invites you to submit research articles, reviews, and reports covering topics of the whole domain of geo-information. Although the journal was only founded in 2012, it has already achieved wide recognition in the scientific community. We are proud that since April 2015, our journal is indexed by the SCIE of the Web of Science. As Editor-in-Chief, I encourage you to consider *IJGI* for your scientific papers and would be pleased to welcome you as authors.

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