

Special Issue

Remote Sensing for Hydrology

Message from the Guest Editor

Remote sensing provides key data for monitoring the hydrological environment of wetlands, monitoring floods, and drawing water resource maps, while geographic information systems provide the best tools for water resource, drought, and flood risk management. This Special Issue will showcase the best practices, cutting-edge technologies, and applications of remote sensing, geographic information systems, and hydrological models in wetland hydrological environments, water resource mapping, water and flood inundation mapping, and risk management. The latest technologies include temporal detection of wetland inundation range, temporal detection of wetland water level, monitoring of suspended sediment transport and hydrological recharge in deltas, geospatial technology, and comprehensive hydrological and hydraulic modeling, which can be used for drawing flood risk maps, flood forecasting and the identification of flood evacuation routes, rainfall runoff and urban flood simulation, as well as satellite radar and optical image classification of urban water bodies and flood inundation.

Guest Editor

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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

Dr. Jean-Luc PROBST

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