Special Issue

GIS Solutions and Remote Sensing Applications in Monitoring, Assessing and Managing Different Aquatic and Glaciated Environments

Message from the Guest Editors

The dynamics of different aquatic and glaciated environments determine the status of water supply and related risks (e.g., drought, fire, flood, and hill slide) worldwide, and profoundly influence the functionality and health of ecosystems and the sustainability of human life. Unfortunately, intensive human activities amplify the impacts of climate change. Across local, regional, and global scales, the science and technology of GIS and remote sensing can provide useful tools for mapping, monitoring, and assessing the combined effects of climate change and human activities on aquatic and glaciated environments. However, given the complexity and uncertainty of human–nature interactions, the routine theories and methods reported in previous studies may not be sufficient to understand the changing world. Therefore, in this Special Issue, state-of-the-art GIS and remote sensing theories and technologies geared towards monitoring, assessing, and managing different aquatic and glaciated environments, particularly multidisciplinary collaborative simulations, machine learning algorithms, multiple dataset combinations, and data assimilation are welcome.

Guest Editors

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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.

Editor-in-Chief

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