Special Issue

Remote Sensing and GIS in Water Resource Management

Message from the Guest Editors

This Special Issue aims to showcase cutting-edge research and practical applications of Remote Sensing (RS) and Geographic Information Systems (GISs) as transformative tools in addressing the critical issues related to water resource management. We invite contributions that explore satellite-based monitoring and GIS-driven spatial analysis of surface water dynamics, groundwater changes, snow and glacier melt contributions to river flows, land cover changes, and model improvements, particularly using multisource remote sensing techniques such as satellite gravimetry (e.g., GRACE) and satellite altimetry (e.g., SWOT). Studies on flood and drought risks, integrated watershed management, and climate adaptation strategies are highly encouraged. Additionally, submissions that integrate RS and GIS data with hydrological frameworks or policy initiatives to support sustainable water management and stakeholder engagement are of particular interest. We also welcome research leveraging advanced techniques, such as machine learning, cloud-based geospatial platforms, and open-source tools, to enhance the accuracy, scalability, and accessibility of water resource analysis.

Guest Editors

Dr. Xueying Li

Dr. Amar Deep Tiwari

Dr. Liu Liu

Deadline for manuscript submissions

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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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

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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