Special Issue

Application of Remote Sensing and GIS in Prediction Hydrogeological Hazards

Message from the Guest Editors

Hydrological hazards, including floods and droughts, pose significant threats to ecosystems, infrastructure, and human well-being. These challenges are exacerbated by climate change, urbanization, and land-use alterations, necessitating innovative strategies for their prediction and management. Remote sensing technologies, when combined with Geographic Information Systems (GISs) and spatial modeling techniques, offer robust tools for assessing hydrological risks and understanding processes at multiple scales. These approaches enable real-time monitoring, risk mapping, and scenario-based forecasting, empowering researchers and policymakers to make informed decisions for sustainable water resource management. This Special Issue will highlight recent advancements in the application of remote sensing, GISs, and spatial modeling to hydrological hazard prediction and management. By fostering interdisciplinary collaboration, it will contribute to the development of innovative methodologies and practical tools to address these pressing challenges.

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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

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