

Special Issue

Applications of Remote Sensing and GISs in River Basin Ecosystems

Message from the Guest Editors

This Special Issue aims to explore the cutting-edge advancements and applications of remote sensing and geographic information systems (GISs) in the management and conservation of river basin ecosystems. It will cover a broad spectrum of topics, including the monitoring and assessment of water quality, mapping land use and land cover changes, analyzing hydrological processes, and modeling ecosystem dynamics. Its purpose is to provide a comprehensive overview of how remote sensing and GIS technologies are being utilized to address the challenges faced by river basin ecosystems globally. This Special Issue will contribute to the existing literature by showcasing innovative research that integrates these technologies to enhance our understanding and management of river basins. It will highlight case studies, methodological advancements, and practical applications, aiming to bridge the gap between theoretical research and practical implementation.

Guest Editors

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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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