Special Issue

Applications of Remote Sensing and Modeling in Hydrological Systems

Message from the Guest Editor

Remote sensing provides large-scale, high-resolution data on various hydrological components, such as precipitation, soil moisture, surface water bodies, and land cover changes. These data are invaluable in real-time monitoring, especially in remote or inaccessible regions. When integrated with hydrological models, remote sensing data enable the simulation of water cycle dynamics and the prediction of hydrological events such as floods and droughts and support the sustainable management of water resources. The Special Issue will gather the latest research findings and case studies, showcasing how remote sensing and hydrological modeling can be used to address contemporary hydrological challenges. In this way, this Special Issue will promote applications of these technologies in global water resource management, providing scientific evidence and technical support to address the hydrological challenges posed by climate change.

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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