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Advanced Watershed Hydrology and Water Quality Modeling Development and Application

Guest Editor:

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Message from the Guest Editor

A broad of range of watershed models have been successfully developed for the simulation of hydrology, erosion, and the transport/fate of sediment and pollutants across the watershed. These models have become important and effective tools for assessing hydrology and environmental issues in the past several decades. With the rapid progress of computer technologies, high-resolution data, and advanced science, existing watershed models have been improved with efficient numerical computation, physically based process descriptions, or addressing the best management practices, challenging climate change, and emerging water quality issues.

This Special Issue titled “Advanced Watershed Hydrology and Water Quality Modeling Development and Application” solicits manuscripts describing the latest research and development of watershed hydrology and water quality modeling and their case studies. It is our hope that a collection of papers for this Special Issue will provide the audience with a resource covering the following aspects of watershed hydrology and water quality modeling development and application.



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Special issue



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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.

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