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Modelling of River Flows, Sediment and Contaminants Transport

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Land use activities such as mining, forestry, agriculture, and urban development often result in the production of sediment and contaminants that are transported downstream by rivers and streams in the watershed. A better understanding of the transport capacity of river flows, the interaction between sediment and contaminants, and the behavior of sediment in different flow fields are essential for assessing the environmental impacts of the human activities in the watershed. Tremendous progress has been made in recent years in developing mathematical models of river flows and sediment and contaminant transport; however, more work needs to be done in this area. For example, modelling of morphological changes of river under various flow conditions are not well developed. Cohesive sediment transport processes such as flocculation, consolidation, and entrapment need further research, and the interaction between sediment and contaminants is not fully understood. The Special Issue on modelling river flows, sediment, and contaminant transport aims to gather high-quality papers that improve the state-of-the art.

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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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