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Hydraulics of River Networks and Modelling

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Message from the Guest Editors

Recent advances in hydraulics of river networks either invasive or non-invasive, have greatly promoted and expanded our understanding of river network hydrodynamics, basin-scale runoff process and associated environmental/ecological problems. Among these, the striking advances include: (1) novel numerical simulation methods for large river networks, e.g. model efficiency improvement, multiscale coupling methods, machine learning methods, and coupling of hydrologic and hydraulic models; (2) hydrodynamics and mass transport in river networks and their effects on water environment and ecology; (3) multi-objective scheduling of water project group and water security improvement for river networks, e.g. flood control, water resource management, water ecology protection; (4) hydrodynamics of surface water flooding and pollutant transport in urban environments.

This Special Issue will also serve as a platform for collecting and exchanging the latest academic research findings in river network hydraulics and river-related environment or ecology, along with novel measurement techniques, experimental and simulation methods.



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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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