Special Issue

Water Resources and Environmental Fluid Mechanics: From the Glacier to the Lake/Ocean

Message from the Guest Editors

Water resources managers and engineers often need to balance conflicting objectives such as hazard mitigation (floods, droughts), socio-economic use (hydropower, navigation, leisure), and environmental protection (conservation or restoration of ecosystem functions). They are faced with problems occurring all along the river axis, from the glacier upstream in the watershed, to the lake or ocean at its downstream end. Water resources and environmental fluid mechanics become ever more multidisciplinary, and the development of tools for design or objective decision-making requires insight in processes occurring where water, sediment and biota meet. New measurement technologies and state-of-the-art experimental investigations in the field and in the laboratory are key to enhancing insight. The present Special Issue particularly welcomes contributions that: (i) focus on eco-hydro-morphological processes; (ii) focus on the relation between processes occurring at different locations along the river axis and in the downstream lake or ocean or at different spatial scales; (iii) focus on experimental studies in the field and in the laboratory.

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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.

Editor-in-Chief

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