Special Issue

Open Channel Flows: An Open Topic That Requires Further Exploration

Message from the Guest Editor

Rivers, valleys, waterways, streams, streamlets, creeks, tributaries, flumes, sewers, spillways, drains, canals, ditches, lakes, estuaries, etc., are frequently present in our environment. They are all open channel flows and are the most common major drainage system on Earth. They are natural or man-made conveyance systems for stormwater, surface water, wastewater, and groundwater. The free-surface flow in an open channel is driven by gravity and is essentially contained within the channel boundaries. The channel characteristics, i.e., the cross/section shape, roughness, bottom slope, sediment types, constriction, presence of vegetation, and obstruction (with natural bodies or hydraulic structures), strongly influence the hydrodynamic flow structures. The flow interactions with these channel features lead to complex dynamic phenomena that may not be easily explained with simple parameterizations and theoretical descriptions. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/2YT05E0144

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

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