



Open Channel Flows: An Open Topic That Requires Further Exploration

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Message from the Guest Editor

Dear Colleagues,

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. [...]

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