



water



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Shallow Water Equations in Hydraulics: Modeling, Numerics and Applications

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Message from the Guest Editors

Dear Colleagues,

In hydraulic engineering free surface water flows are commonly described by means of the shallow water equations (also called the Saint-Venant equations) and closely related models. Despite their simplicity, this description is valid in many applications in hydraulics and as such has a long tradition of providing a scientific basis for engineering practice. To this end, shallow water equations arise in modelling water flows in rivers, canals, lakes, reservoirs, coastal and urban areas and many other situations in which the water depth is much smaller than the horizontal length scale of motion. As such, shallow water and closely related equations are widely used in oceanography and atmospheric sciences to model, among others, hazardous phenomena as hurricanes/typhoons and tsunamis[...]

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Shallow_Water_Hydraulics



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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.

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