Special Issue

Experiments and Numerical Analysis of Flow

Message from the Guest Editor

Flow phenomena and the associated momentum transfer near the permeable bed are encountered in various fields (environmental hydraulics, geophysical fluid dynamics, and mechanical engineering, among others). Turbulence is found to be the primary mechanism of transport processes in most natural shear flows. The turbulent characteristics of flows are important in particle transport phenomena.

A thorough study of open channel flows is very significant for a wide range of applications, including restoration and enhancement of river aquatic systems. Additionally, the study of the impact of vegetation on turbulent flow in an open channel has particular importance. The presence of vegetation in rivers and open channel beds significantly influences velocity and depth flow.

This Special Issue aims to cover, without being limited to: fluid mechanics; eco/environmental hydraulics; experimental techniques; advanced models in turbulence, heat transfer and mass transfer; sediment transport and morphodynamics in streams and rivers; vegetated flows; erosion processes; morphology and water quality; innovative management systems.

Guest Editor

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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