



Experiments and Numerical Analysis of Flow

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Evangelos Keramaris
Guest Editor





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Message from the Editor-in-Chief

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