Special Issue

Experimental, Numerical and Field Approaches to Scour Research

Message from the Guest Editors

Scientific research in the area of scour around hydraulic structures were primarily empirical in nature and founded on laboratory experiments, because of the complexity of the flow-sediment-structure interactions. The pure laboratory empiricism of the earlier works has been complemented by both numerical and field approaches, especially since numerical software and field measurement devices have attained a significantly higher level of sophistication. The three-prongedapproach towards scour research has provided new insights into the topic, including not only the original bridge foundation scour but also propeller, submarine pipeline, monopile, jet, rock, river bank and levee scour, etc. The aim of the issue is to present innovative research based on any one or a combination of these approaches, that elucidate the physics of the topic and provide solutions to practitioners, thus offering a better framework to aid the decision-making processes of river, coastal and offshore engineers. Contributions relating to the study of the effect of turbulence on and dynamic behavior of the structures will be of great value for both academia and stakeholders.

Guest Editors

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Prof. Oscar Link

Deadline for manuscript submissions

closed (31 August 2019)



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Message from the Editor-in-Chief

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

Dr. Jean-Luc PROBST

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