





an Open Access Journal by MDPI

# **Experimental, Numerical and Field Approaches to Scour Research**

Guest Editors:

### **Prof. Yee-Meng Chiew**

School of Civil and Environmental Engineering, Nanyang Technological University, Singapore 639798, Singapore

#### Prof. Dr. Jihn-Sung Lai

Hydrotech Research Institute/Department of Bioenvironmental Systems Engineering, National Taiwan University, Taipei 10617, Taiwan

#### **Prof. Oscar Link**

Department of Civil Engineering, Faculty of Engineering, Universidad de Concepción, Concepción 403000, Chile

Deadline for manuscript submissions:

closed (31 August 2019)

## **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-pronged-approach 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 decisionmaking 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.







IMPACT FACTOR 3.4



an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

# **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 technological scientific domains and interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

# Contact Us