Special Issue

Transport of Mixture of Cohesive and Non-Cohesive Sediments in Rivers

Message from the Guest Editor

River sediment is generally composed of a mixture of fine-grained cohesive sediment (particles finer than 62 microns in size) and coarse-grained non-cohesive sediments (particles coarser than 62 microns in size). Cohesive sediments are derived from the overland and tributary in flows, as well as river-bank erosion. The non-cohesive sediment fractions are normally found in the riverbeds. The transport characteristics of cohesive and non-cohesive fractions are very different: cohesive sediment fractions normally undergo flocculation, as they are subjected to the river flow field, whereas the non-cohesive fraction behaves as individual particles. Critical conditions for erosion and deposition for the two types of sediments are also very different. To highlight current research on the transport and mixture of cohesive and non-cohesive sediment fractions in river flows, we are assembling a Special Issue to publish high-quality research papers in this area of research. We are encouraging researchers in this field to submit their original research articles and review papers outlining their progress in this area to this Special Issue.

Guest Editor

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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

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