Special Issue

Modeling and Practice of Erosion and Sediment Transport under Change

Message from the Guest Editors

Climate and anthropogenic changes impact the conditions of erosion and of sediment transport in rivers. The rainfall variability and, for many places, the increase of rainfall intensity have a direct impact on rainfall erosivity. Increasing demography leads to acceleration of land cover changes in natural areas to cultivated areas, and then sometimes in degraded areas and desertified landscapes. These anthropogenized landscapes are more sensitive to erosion. On the other hand, the increase in the number of dams in watersheds trap a great part of sediment fluxes, which do not reach the sea in the same amount, nor at the same quality, with consequences on coastal geomorphodynamics. This Special Issue is dedicated to studies of sediment fluxes, from continental areas to coastal areas, observation, modelling and impacts, at different scales, from watershed slopes to the outputs of large river basins.

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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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