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Advances in River Restoration and Sediment Transport Management

Guest Editor:

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Message from the Guest Editor

This Special Issue aims to present solutions for river restoration, such as dam and weir decommissioning, removal of regulation structures (e.g. riprap, groynes, guiding walls), reconnection of side channels, and implementation of nature-based solutions in river engineering. The analysis of the effects of the presented solutions may consider benefits for abiotic processes (e.g. flow dynamics, morphodynamics) as well as biotic indicators of restoration success, such as fish or macroinvertebrates. Moreover, the understanding of sediment transport and morphodynamics in rivers, from fundamental transport processes to sediment budgets to management aspects in rivers and reservoirs will be targeted in this Special Issue. Due to climate change some rivers in the world also face challenges from increased flow and sediment discharges, thereby causing an excess of sedimentation processes, which in turn may endanger flood protection, navigation or hydropower generation. Studies investigating the role of sediment transport processes and morphodynamics in the context of river restoration projects are therefore particularly welcome.



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

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