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Nature-Based Approaches in River Engineering

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Message from the Guest Editors

For centuries, humankind has been engineering hydraulic structures in river systems to provide water security and safeguard against floods and droughts. Many levees, dikes, and embankments have been constructed to avoid or control river flooding and allow trading of goods and economic welfare. Several thousands of reservoirs have been built in all major river systems of the world for hydropower generation and to secure water supply in case of shortage. However, such measures have often induced adverse effects, notably to the environment.

More recently, the concept of 'building-with-nature' has been receiving considerable interest in attempts to remedy or reduce such adverse effects. This implies that the natural behavior of river systems needs to be assessed and understood at all levels of length and time scales before engineering measures can be developed to serve their particular purpose. [...]

For further reading, please follow the link to the Special Issue Website at:

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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.

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