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Rethinking River Systems: Breakthroughs in Flow Simulation and Morphodynamic Modelling

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submissions:

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Message from the Guest Editors

Dear Colleagues,

We are excited to introduce the Special Issue titled "Rethinking River Systems: Breakthroughs in Flow Simulation and Morphodynamic Modelling". This edition is dedicated to exploring recent advancements and setting the future direction in river engineering and morphology. The Special Issue covers a wide array of topics, such as:

- Advanced experimental methods, mathematical and numerical modelling of complex river processes, and innovative management strategies. It includes data-driven approaches and insights from real-world case studies.
- Monitoring and forecasting of river flow patterns, sediment transport, and channel evolution, especially considering the impacts of climate change and human intervention.
- Examination of riverine heterogeneity on sediment and nutrient transport, and the challenges in model calibration and prediction accuracy.

We invite contributions from researchers in experimental, theoretical, and computational aspects of river engineering and morphodynamics.

[...]

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

https://www.mdpi.com/journal/water/special_issues/TBU854EZ42



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Special Issue



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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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