Special Issue

Advances in Sediment Dynamics: Mechanisms, Modeling and Management in Transitional Environments

Message from the Guest Editors

This Special Issue is devoted to advancing the study of sediment dynamics in transitional environments, with a particular focus on deltas, lagoons, lakes, and estuaries. These ecosystems, often in delicate equilibrium, are especially vulnerable to climate change and anthropogenic pressures, making the understanding of sediment transport and deposition processes crucial for their sustainable management. Key factors shaping these environments include temperature, salinity, sediment concentration and composition, geomorphological features, and hydrodynamic drivers such as tides, waves, currents, and river discharges. Contributions are welcome that address sediment transport processes through field investigations, laboratory experiments, numerical and theoretical modeling, remote sensing techniques, or other innovative approaches.

Guest Editors

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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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