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Application of Numerical Modeling in Estuarine and Coastal Dynamics

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Deadline for manuscript submissions:

20 October 2024

Message from the Guest Editors

Recent advancements in numerical modeling techniques have significantly enhanced our understanding of estuarine and coastal dynamics, providing deeper insights into processes such as tidal currents, sediment transport, shoreline evolution, and ecological interactions. This progress has facilitated the effective addressing of real-world challenges in coastal management, engineering projects, and environmental conservation efforts. To further explore these advancements, this Special Issue will focus on both the application of existing models and the development of new implementations in the realm of Estuarine and Coastal Dynamics. We welcome papers examining theoretical or observational applications, including in situ or remote sensing monitoring and satellite observations, as well as modeling studies utilizing variant numerical methods, machine learning, artificial intelligence, data assimilation, and remote sensing techniques.



mdpi.com/si/201839

Special Issue



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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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