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# Advances in Modelling and Prediction on the Impact of Human Activities and Extreme Events on Environments

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## Message from the Guest Editors

Coastal and river ecosystems are of significant social, economic, and biological value. These areas, however, suffer frequently from natural disasters, such as flooding, erosion, and contamination with pollutants. Substantial research efforts have been devoted to investigating the underlying causes, evaluating the impacts, and identifying various mitigation strategies to reduce their negative effects on society. Despite this, we still face a much more challenging situation than ever due to global climate change and the increase in urbanization.

This special issue aims to gather the latest developments in advanced numerical and other technologies to predict and evaluate the changes in river and coastal environments, thus providing a valuable reference for the regulation of extreme events and human activities. The scope includes, but is not limited to, the forecast of extreme waves and rainfalls; numerical and experimental modeling of flooding; morphological evolution of coastal lines and rivers; dispersion of any contaminants in rivers and coastal areas; coastal and river hydrodynamics linked to any extreme events.

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## Editor-in-Chief

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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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