



water

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Modeling of Flood Hazard and Assessment of Inundation Impacts, Vulnerability and Risk in Coastal Areas

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Deadline for manuscript submissions:

closed (30 December 2025)

Message from the Guest Editors

Dear Colleagues,

This Special Issue covers various hot topics of modern research, i.e., the very high-resolution modelling of flood hazards in coastal areas in order to support the detailed identification of inundation impacts at low-lying littoral areas. It also focuses on the assessment of exposure, vulnerability, resilience and flood risk in both the natural environment and urban settings of the coastal zone.

We invite authors to submit papers addressing recent advances in fine-scale modelling, process-based approaches, remote sensing, field studies, hazard and exposure assessment methods to investigate coastal flooding impacts for both short-term forecasting and long-term flood risk analyses. Papers addressing flood mitigation measures and specific case studies about coastal flooding impacts and assessment of related costs are also welcomed. Submitting research about the drivers of coastal floods. Conclusively, we seek new contributions to recent technological solutions in data acquisition and production of very high-resolution/-accuracy datasets of floodwater inundation in the coastal zone.



mdpi.com/si/194463

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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