Storm Surge Hazards Evaluation and Prediction

Guest Editor:

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Deadline for manuscript submissions:
closed (1 August 2021)

Message from the Guest Editor

The purpose of this invited Special Issue is to publish the most exciting research concerning the state-of-the-art in our understanding and modeling coastal hazards due to storm surge, flooding, and erosion processes, as well as their impact throughout the coastal areas. Contributions are encouraged in topics including the following:

Coastal models development and validation;

Tropical and extra-tropical storm surge modeling;

Statistical sea hazard forecasting;

Erosion process and sediment budget modeling;

Surrogate modeling;

Coupled hydrologic and hydrodynamic models;

Simplified methods for the hydraulic risk evaluation;

Storm surge, waves and extreme water levels forecast challenges;

Novel design criteria for sea defences;

Nature-based solutions;

Structural and non-structural measures for sea hazard reduction;

Effects of climate change on coastal environments.

mdpi.com/si/59760

Special Issue

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Message from the Editor-in-Chief

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