Special Issue

Assessment of Current and Future Vulnerability of Coastal Flooding

Message from the Guest Editors

In low-lying, flood-prone areas, coastal flooding has caused conspicuous economic losses and several fatalities. Morphological and socio-economic vulnerabilities in the present changing climate and environment are expected to increase. Managers require reliable maps to plan sustainable urbanisation and tools to alert the population in case of danger. However, the evaluation of the magnitude and the impact of flood hazards, both in the long- and short-term, is very a challenging task, since sources of coastal flooding events are quite different, for instance, dune overflow and breaching, overtopping of river delta levees, and failure of sewage systems. Researchers of many different disciplines, including coastal and hydraulic engineering, hydrology, meteorology, remote sensing, geography, and geotechnics, are invited to collaborate by analysing and integrating all the different sources of the hazard and improving knowledge in the field of flood vulnerability assessment and mitigation.

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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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