



water

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Assessment of Current and Future Vulnerability of Flooding with Hydrologic/Hydraulic Modeling and Remote Sensing Techniques

Guest Editors:

Prof. Dr. Yang Hong

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Message from the Guest Editors

Flooding hazards cause numerous economic and life losses in the present changing climate and environment. This Special Issue seeks to highlight interdisciplinary approaches to address the complexity of flood vulnerability assessment in this changing climate and environment, including topics, such as:

Deadline for manuscript submissions:

closed (31 March 2018)

- Novel calibration/validation methods for numerical flood-inundation modelling;
- Applying machine learning techniques/big data to flood risk/characteristic assessment;
- New methods/data in obtaining river bathymetry;
- Review of numerical flood simulation/prediction/design methods;
- Flood-inundation applications using high-resolution remote sensing/GIS techniques/data/products;
- Assessment of flood caused socioeconomic impact and hazard reduction;
- Flood impact on sustainability of critical infrastructure, energy, food security and nexus;
- Flood frequency/characteristics/analysis in changing climate, environment/urbanization;
- Effects of climate change and sea level rise on coastal flood risks;
- Flood threats in changing estuaries, coasts and sea level.



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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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