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Flood Frequency and Inundation Modelling

Guest Editor:

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Deadline for manuscript submissions:
closed (20 December 2019)

Message from the Guest Editor

This Special Issue aims to provide peer-reviewed studies utilizing probabilistic, hydrological and hydrodynamic modelling techniques for flood frequency and floodplain inundation modelling. This special issue aims to cover, the following research areas:

- Precipitation modelling: using various probabilities modelling techniques to quantify variability and changes in historical precipitation, climate modelling to assess changes in precipitation under projected future climates;
- Streamflow assessment: predicting streamflow in ungauged basin and modelling the changes in flow regimes for future climate and infrastructure development;
- Flood frequency: regional and continental scale flood frequency analysis, variability and trend analysis, uncertainty in flood modelling;
- Floodplain inundation modelling: advances in modelling techniques, impact of climate and infrastructure development on inundation dynamics and frequency of flooding, coupling of remote sensing and hydrodynamic modelling for inundation mapping;
- Ecological impact assessment: Quantifying impacts of changes in hydrological flow metrics on flow dependent ecosystem.

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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