

## Special Issue

# Process Based Modelling of Natural and Distributed Flood Control Measures

### Message from the Guest Editor

Nature-based retention measures are an essential part of a sustainable and integrated flood-protection strategy at different scales. Natural and distributed flood control measures comprise land-use change; agricultural management; the restoration of rivers and floodplains; as well as small, uncontrolled retention basins. It is essential to analyze the effects of these measures. One aim of this Special Issue is to bring together recent research on the effects of combined river and flood plain restoration in different catchments with various topographic properties and different spatial scales. Moreover, submissions analyzing the impact of different land-use, agricultural management, and small retention basins on runoff generation and runoff concentration are encouraged. We especially welcome submissions about modelling results, as well as experimental outcomes that analyze catchment and event characteristics with regard to their flood reduction potential. Manuscripts about optimizing nature-based solutions for flood risk reduction in mesoscale catchments are also welcomed.

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### Guest Editor

Prof. Dr. Markus Disse

Chair of Hydrology and River Basin Management, School of Engineering and Design, Technical University of Munich (TUM), 80333 Munich, Germany

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### Deadline for manuscript submissions

closed (30 November 2021)



## Water

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*Water*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

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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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### Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR  
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(CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane,  
Toulouse, France

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