Special Issue

New Paradigms in Flood Hazard and Risk Management

Message from the Guest Editor

Flood hazard is still one of the major causes of damage to our communities. While on the one hand, this may be due to the effects of climate change with an increase in extreme events, on the other hand it clearly seems to indicate the need for new paradigms. The technological evolution of forecasting systems, sensors and their integration, the smart structures and the relative remote control have in fact broken down the barrier that separates structural and non-structural action and determined the start of a different approach in risk management. The Special Issue aims to gather new contributions emphasizing different aspects of new paradigms in flood risk management. Proposed topics may refer (but are not necessarily limited to) the following: flood forecasting modeling, sensor technology, sensor integration and fusion hydrologic and hydraulic modeling, flood damage assessment, flood hazard and susceptibility mapping, information to the public and data visualization techniques in emergency. In a multi-hazard approach, topics may be extended to gravitative processes such as avalanches, debris flows, mud flows and so on.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/55560

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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.

Editor-in-Chief

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