Special Issue

Flash-Flood Hazard Hydro-Geomorphic Characterization and Mapping: Latest Advances and Prospects

Message from the Guest Editor

Adverse topographical and geological conditions are important factors contributing to the occurrence of mountain flood disasters. In-depth research on the hydrological and geomorphological characteristics of mountain flood disasters and surveying techniques has become a critical direction for current mountain flood disaster prevention and control. In terms of hydrological and geomorphological characteristics, the accurate description of the underlying surface characteristics of small watersheds and a clear understanding of production–conflux characteristics are crucial for simulating and analyzing the process and causes of mountain floods. With the development of measurement techniques, advanced surveying methods such as LIDAR, UAV aerial photography, and satellite remote sensing have been widely used in the real-time monitoring of terrain and flood dynamics in complex areas, providing more comprehensive and accurate data support for the monitoring, early warning and scientific research of mountain flood disasters. The journal will play a critical role in mountain flood disaster monitoring, early warning and scientific research.

Guest Editor

Prof. Dr. Changjun Liu

China Institute of Water Resources and Hydropower Research, Beijing, China

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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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.

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Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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