



Impact Assessment and Management of Fluvial Hazards in a Rapidly Changing Environment

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Message from the Guest Editors

The progressive alteration of climatic conditions together with further human interventions in nature have caused a shift in temporal patterns and intensities of fluvial processes worldwide. The impacted regions and the hazard potential of floods have increased in recent decades, specifically in mountainous regions. Extreme events, going beyond the capacities of protection systems, are expected to occur more frequently in the coming decades.

Aiming to cope with this worsened situation, flood risk management actions are currently focused on some substantial challenges. For example, they demand collaborative action among researchers and practitioners, applying a transdisciplinary approach merging technical engineering, ecology, biology, and the social sciences. These challenges have to be achieved in a highly sensitive environment, without affecting or even restoring the natural river ecosystem and coping with settlement expansion, with returning the required space to river systems in a landscape.

This Special Issue is devoted to all relevant topics in flood risk impact assessment and management coping with these challenges.





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