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Analysis of Extreme Hydrometeorological Events

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Extreme hydrometeorological events, causing severe impacts in terms of injuries, casualties, and socio-economic losses, are being reported more and more frequently all over the world. Climate variability and anthropogenic changes amplify the impacts of these events.

The aim of this Special Issue is to showcase studies addressing challenges in monitoring, modeling, forecasting, and assessing the impacts of hydrometeorological hazards. We welcome both research papers and technical notes on the analysis of hydrometeorological extreme events at local, catchment, and global scales.

Studies may focus on: (i) the description of recent relevant extreme hydrometeorological events, accompanied by analyses of spatio-temporal features and trends; (ii) the estimation and projection of the impacts of climate change and land-use transformations on the occurrence and severity of hydrometeorological extreme events, with associated uncertainties; (iii) the integration of remote sensing data or climate forecasts and models to provide timely warnings or reliable predictions; (iv) the use of advanced statistical methodologies to characterize extreme hydrometeorological events, among others.

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