

Special Issue

Risk Forecasting of Extreme Weather

Message from the Guest Editors

Climate change has had a considerable impact on the global weather system, leading to changes in seasonal patterns as well as an increase in the frequency of extreme weather. A recent report by the Intergovernmental Panel on Climate Change stated that this significant increase in extreme weather can be attributed to anthropogenic influences, and if the emissions are not regulated, the impact caused by these events will increase dramatically in the near future. To curb these impacts, the concept of spatial risk estimation and forecasting of weather to medium range based on forecasted hazards will be crucial, and its role in local adaptation and mitigation policies along with proper disaster management can hardly be disregarded. Surprisingly, the existence of such studies is limited thus far, specifically relating to the global south region. In this Special Issue, we seek multi-disciplinary contributions that help to improve our understanding of the interactions between the extreme weather hazard and their associated vulnerability to estimate the risk, as well as possible forecasting of the risk at a local scale at which the disaster management takes place.

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Deadline for manuscript submissions

closed (30 April 2022)



Sustainability

an Open Access Journal
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Impact Factor 4.1
CiteScore 8.9



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