Special Issue

Vulnerability to Weather and Climate-Related Extremes in Italy: Past, Present, and Future

Message from the Guest Editors

Italy, located in the center of the Mediterranean Sea between Africa and Europe is particularly vulnerable to severe weather and climate-related extremes. These extremes significantly impact both natural systems and human activities. To effectively manage and mitigate the risks arising from such events, it is essential to study past and current extremes, allowing us to develop appropriate predictive models for potential future impacts. This Special Issue invites potential contributors to submit original research papers that highlight significant scientific findings related to Italy, focusing on weather- and climate-related extremes. This includes cold/heatwaves, extreme precipitation, flash flooding, storms, rain-induced landslides, droughts, and famine. We welcome a broad perspective that explores various aspects of hydro-meteorological extremes, encompassing flood frequency and trend analysis, as well as hydrological assessments of droughts.Please scan the QR code or click the link after the code for more specific details.

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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