Special Issue

New Perspectives in Hydrological Extremes

Message from the Guest Editors

Hydrological extremes have long been a critical focus in water resources management and environmental science. Traditionally, research and management strategies have centred on heavy rainfall events and their immediate consequences, such as extreme discharges and floods. However, the paradigm of climate change has significantly broadened our understanding and approach to these events, necessitating a more comprehensive examination of hydrological extremes.

This Special Issue will highlight novel approaches and insights into hydrological extremes, encompassing both traditional and emerging challenges. We welcome studies that investigate the interplay between various hydroclimatic variables, including, but not limited to, precipitation, temperature, humidity, and wind patterns. Of particular interest are research efforts that address the multifaceted nature of hydrological extremes in the context of climate change.

Guest Editors

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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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