Special Issue

Climate Change Impacts on Urban Stormwater Management

Message from the Guest Editors

Climate change has led to an increase in extreme rainfall events, which, combined with urbanization, is one of the main causes of urban flooding risk and water pollution. This Special Issue aims to gather contributions that deal with advanced studies on climate change effects, specifically urban flood risk, and on new, smart, and sustainable urban stormwater management strategies. The main topics of interest for this publication are as follows:

- Climate change impacts on rainfall events
- Spatial and temporal rainfall variability
- Urban stormwater management under climate change impacts
- Numerical modeling of urban drainage systems
- Criticalities analysis of urban drainage system
- Tools, methods, and models for urban flood risk mapping and management
- Stormwater qualitative-quantitative experimental analysis
- Real-time control approach efficiency for urban stormwater management
- Analysis of the effectiveness of sustainable solutions on urban runoff mitigation
- Life cycle assessment analysis

Guest Editors

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Deadline for manuscript submissions

closed (18 January 2023)

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About the Journal

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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