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New Approaches in Design Rainfall Calculations in the Aspect of Storm Water Management and Urban Flood Risk Management

Guest Editor:

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Deadline for manuscript submissions:
closed (5 November 2020)

Message from the Guest Editor

Dear Colleagues,

Rainfall data have a decisive impact on the results of hydrodynamic modeling of urban drainage systems and flood risk assessment. It is therefore obvious that we must strive to provide the most accurate rainfall models, based on comprehensive analyses of available precipitation data at the regional level. This Special Issue aims to broaden our knowledge of current research on the temporal and spatial variability of precipitation in the context of storm water and urban flood risk management. In particular, the following topics are of interest:

- Current and future precipitation models;
- Temporal and spatial rainfall distribution;
- Impact of climate change on rainfall characteristics;
- Statistical analysis of precipitation data;
- Future rainfall scenarios for urban drainage modeling;
- Defining rainfall hyetographs;
- Factors affecting local design storms;
- Verification of precipitation patterns;
- Flood risk management in the aspect of climate change;
- Past and future climate change impacts on precipitation extremes;
- Hazard mitigation and adaptation strategies.

Dr. Bartosz Kaźmierczak
Guest Editor

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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!

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