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Numerical Modelling and Data Analytics for Resilient Urban Water Infrastructure

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Message from the Guest Editors

Urban water infrastructure consists of water and wastewater distribution/collection and treatment and flood control systems. Climate change is putting increasing stress on urban water infrastructure by increasing the frequency of natural hazards such as flooding or drought. At the same time, rapid urban population growth increases the exposure and vulnerability to these hazards. It is important to build resilience to natural hazards to adapt to climate change and achieve sustainability. Numerical modelling and data analytics play an increasingly important role in understanding and predicting the impacts of natural hazards, assessing risks, optimizing planning and operation, and ultimately increasing resilience. This special issue provides a platform to showcase recent advances in methodological development or applications of numerical or data-driven methods for increasing resilience of urban water infrastructure to natural hazards. [...]

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