



## Emerging Issues of Urban Water Systems Modeling and Analysis, Volume II

Guest Editors:

**Prof. Dr. Do Guen Yoo**

Department of Civil Engineering,  
The University of Suwon,  
Gyeonggi-do 18323, Korea  
dgyoo411@suwon.ac.kr

**Prof. Changhyun Jun**

Department of Civil and  
Environmental Engineering,  
Chung-Ang University, Seoul  
06974, Korea  
cjun@cau.ac.kr

**Prof. Dr. Young Hwan Choi**

The Department of Civil  
Engineering, Gyeongnam  
National University of Science  
and Technology, Jinju,  
Gyeongsangnam-do 52725,  
Korea  
yh.choi@gntech.ac.kr

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### Message from the Guest Editors

Urban water systems (UWSs) are the most essential part of public infrastructure and face multiple challenges related to future uncertainties in providing a more sustainable and resilient service. UWSs typically include water collection, storage, treatment, transport, sewer, and drainage facilities.

### Special Issue Topics

- New hydraulic, hydrologic, and water quality modeling and analysis techniques in UWSs;
- Optimal design of urban water supply and drainage systems, including water network partitioning;
- (Dynamic) calibration and verification issues for real-time modeling and data analysis;
- UWSs response and recovery under catastrophic failure events;
- Big data and analytic challenges for the management of UWSs using IoT-based measured data;
- Innovative metrics for resilience computation in UWSs;
- Rainfall–runoff modeling in UWSs under climate change and urbanization;
- Actions to protect UWSs from accidental and intentional contamination;
- Optimization algorithms and artificial intelligence base techniques for dealing with large networks.

