

Special Session
on
Smart Water: Information Sharing and Intelligent Management
Systems
at
The 8th International Conference on Water Resources and
Environment Research (ICWRER 2019)
Nanjing, China, June 14th to 18th, 2019

Session Organizers:

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Scope and Objectives:

Smart Water is a water information sharing and intelligent management system that is achieved through highly integrating, developing, and utilizing water resources information, in conjunction with a combination of emerging technologies such as Internet of Things (IoT), big data, wireless broadband communications, cloud computing, geographic information systems (GIS), and water information systems. Smart Water covers all aspects of water resources including hydrology, water quality, water resources management, water supply and drainage, flood control and prevention, and drought. Smart Water aims to maximize water and social welfare and promote water coordination by integrating information and communication technology products, solutions and systems without affecting the sustainable development of water as a resource. As a result, Smart Water can continuously monitor and diagnose problems, prioritize and manage maintenance issues, and use data to optimize water distribution networks in a comprehensive manner to better allocate, manage and reset water resources, thereby improving current water management status in many countries.

This special session provides a forum for the presentation and discussion of Smart Water ideas from interdisciplinary perspectives. It builds a bridge for scholars and practitioners who are engaged in different research areas connected to Smart Water to share their research and experience. Overall, the session should promote in-depth research and development of Smart Water Management and associated technologies. Original research contributions and novel applications from authors regarding the both social and physical systems aspects of Smart Water are welcomed.