

Special Issue

Sustainable Environmental Planning and Management of Urban Water Infrastructures and Water Resources

Message from the Guest Editor

Pressure on urban agglomerates and fresh water resources, both at local and regional scales, caused by population growth, rapid urbanization, impermeabilization, anthropogenic activities, and global warming with increasing extreme events, is threatening urban areas and surface and underground natural water bodies. In many regions of the world, these systems are not able to fully respond to changes and reach suitable natural equilibriums without well-planned external interventions. Current topics of research in this challenging area include the following: (i) The development and application of mathematical programming with single- and multi-objective optimization to water resources, both at local and basin levels; (ii) New developments in the planning, design, operation and rehabilitation of urban water infrastructures; (iii) Local versus regional water and sewage systems and corresponding challenges, including special structures and LIDs in urban stormwater networks, annual unit costs, global costs, and economies of scale; (iv) Conventional and advanced wastewater treatment and interaction of the final effluent with the surrounding urban area, or reuse of the treated wastewater.

Guest Editor

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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