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Design of Urban Water Drainage Systems

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Urban drainage systems (UDS) have a central role in water management. Impermeabilization of increasingly larger urban and suburban areas, as well as the occurring climate changes, lead to possible drainage failures within short return time periods and require, along with accurate analysis and forecast tools, also the design of new diffused storage systems like permeable pavements, gardens and green roofs. Adaptation of UDS to existing or planned wastewater treatment plants, as well as exploitation of the energy potential hidden in the conveyed water volumes are also central and critical issues for a wise urban water management.

On this basis, modeling urban drainage systems requires, along with accurate and efficient numerical solvers, also the capability of getting and processing all the data and the information used by the models: Topografic elevations, soil permeability, rainfall/runoff transformation inside the model domain and in all the linked external basins, [...]

For further reading, please follow the link to the Special Issue Website at:

http://www.mdpi.com/journal/water/special_issues/drainage_system_design

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Message from the Editor-in-Chief

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