



## Soil–Water–City Nexus in Urban Environment: Experimental Investigations and Numerical Analysis in Urban Hydrology Science

Guest Editors:

**Prof. Patrizia Piro**

**Dr. Michele Turco**

**Dr. Stefania Anna Palermo**

**Dr. Behrouz Pirouz**

Deadline for manuscript  
submissions:  
**closed (20 November 2023)**

### Message from the Guest Editors

Dear Colleagues,

The Guest Editors are inviting submissions to a Special Issue of *Hydrology* on the subject area of “Soil–Water–City Nexus in Urban Environment: Experimental Investigations and Numerical Analysis in Urban Hydrology Science”.

Ongoing urban development has significantly changed the landscape with the consequent alterations of the hydrological processes in urban areas. This Special Issue will investigate the dynamics of these processes and it will explore topics related to recent advances in methods and techniques to improve resilience in urban areas, such as low-impact development techniques.

The main topics of interest for this publication are as follows:

- Stormwater qualitative-quantitative experimental investigations;
- Numerical modeling of urban drainage systems;
- Data analysis and numerical modeling of infiltration processes in the urban environment;
- Water resource optimization systems;
- Modeling of prediction and prevention of critical situations;
- Monitoring systems of hydraulic structures;
- Investigation on hydrological and hydraulic forecasting and management models;
- Life cycle assessment investigation.

