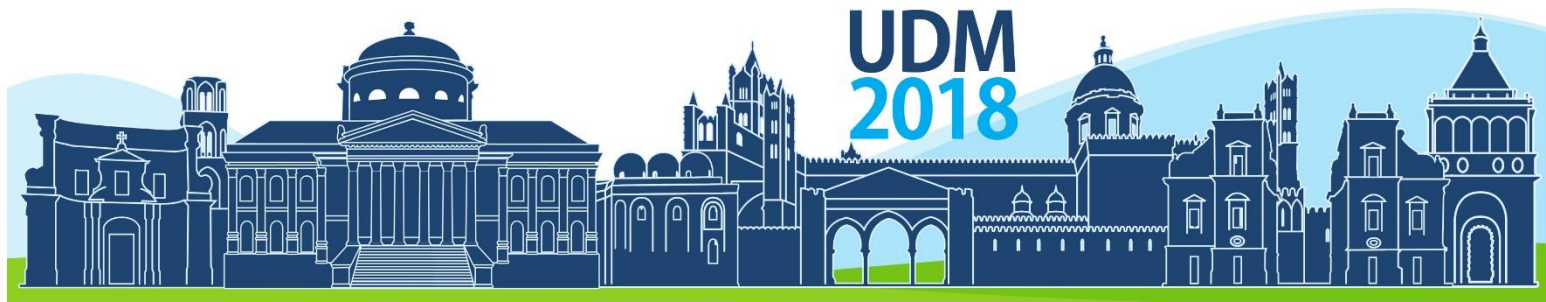


**UDM
2018**



PROCEEDINGS
**11th International Conference on Urban
Drainage Modelling (UDM)**
Sep. 23–26, 2018
Palermo, Italy



11th International Conference on **Urban Drainage Modelling**
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Foreword

In recent decades, urban drainage systems are receiving increased attention as interests in sustainable water resources grow. Modelling of urban drainage system is of paramount importance for enhancing human life. Specifically, modelling of urban drainage system focuses on the main and advanced topics (e.g., water quality and quantity, urban flooding and modelling, urban flood forecasting and risk analysis, socio-economic interactions and modelling tools, etc...) by paying the attention on the interrelationships among the entire water cycle, environment and society.

The book contains contributions presented during the 11th International conference on Urban drainage modelling (UDM) was held in September 23-26, 2018 in Palermo, ITALY. This was the eleventh in the series of UDM events and is a joint activity of: the International Working Group on Data and Models of the Joint IAHR / IWA Committee on Urban Drainage, the Environmental and Water Resources Engineering | ASCE, the International Environmental Modelling and Software Society (iEMSs). The UDM Conference was hosted and received also the support of the University of Palermo.

The UDM final aim was to create a forum for promoting the discussion amongst scientists, professionals and academia in different areas of the broader themes.

The conference was organized in nine parallel sessions and for each of them a keynote by a referral researcher was presented. Specifically, the keynotes were held by the following professors, whose contributions were highly inspiring: Jean-Luc Bertrand-Krajewski, David Butler, Steven Chapra, Ana Deletic, Anthony Jakeman, William James, Gustaf Olsson, Wolfgang Rauch and Peter Vanrolleghem.

The wealth of information exchanged during UDM was of great benefit to all involved in challenging environmental issues.

The book is organized in nine parts: Part A - Drainage and impact mitigation (BMP, LID, CSO quality and quantity, etc), Part B – Frontiers in urban drainage, Part C - Receiving water quality, Part D - Rainfall in urban areas, Part E - Urban hydrologic and hydraulic processes, Part F - Tools, techniques and analysis in urban drainage modelling including Real-Time Control, Part G – Modelling interactions and integrated systems, Part H - Transport and sewer processes including Micropollutants and pathogens and Part I – Water management, society and climate change.

Each contribution of the conference has been peer-reviewed by at least two members of the scientific committee. Their efforts have contributed to the high quality of the final book contributions and, therefore, their reviewing activity is acknowledged and appreciated.

I do hope that the reader will find the book a source of inspiration for both research and professional life.

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