

CSDU DAYS 25

CSSI

Il International Conference on
**Challenges and Perspectives in
 Urban Water Management Systems**

When?

November 17-20, 2025

Where?

Università degli Studi di
 Trieste
 Building A

Short paper submission deadline

30 September

Registration deadline

30 October

**Website
 for all
 informations**



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Return

**XI Giornata di
 Studio sul**

**Urbano
 Sostenibile
 International
 XVIII**

**Short Course
 on Water
 Management
 in Resilient Cities**

18

**URBAN
 WATER
 PROCESSES**

Sub-session 1.1

Hydrological
 Dynamics &
 Climate Change in
 Urban
 Environments

Sub-session 1.2 Based
 Solutions

Water Quality &
 Environmental
 Impact of Water
 Infrastructures

19

**URBAN WATER
 MANAGEMENT**

Sub-session 2.1
 Sustainable Water
 Infrastructures & Nature-

Sub-session 2.2
 Integrated Urban
 Water

Systems & Water
 Governance

20

**SUNRISE
 PROJECT Final
 event**

Return

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 on Challenges and Perspectives
 in Urban Water Management Systems

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PROGRAMME 19 NOVEMBER

Building A - Aula magna

Session 2: Urban Water Management

Sub-session 2.1—Sustainable Water Infrastructures & Nature-Based Solutions

8.45 Conveners intro

- Umberto Sanfilippo - Politecnico di Milano
- Silvia Meniconi - Università degli studi di Perugia
- Stefano Pagliara - Università degli studi di Pisa

9.00-09.15 Energy Optimization Strategies for Water Pumping Stations in 2 the Piovese Area, managed by AcegasApsAmga S.p.A.

Armando Carravetta, Oreste Fecarotta, Caterina Capponi, Silvia Meniconi

9.15-9.30 Minimization of Power Demand through Optimized Pressure Management in Water Distribution Networks

Armando Carravetta, Oreste Fecarotta

9.30-10.00 Effectiveness of a Scaled WDN Benchmark for Optimization Applications

Stefano Malavasi

10.00-10.15 Integrating Nature-based Solutions in urban hydrology: the Cerisano case study

Stefania Anna Palermo, Michele Turco, Behrouz Pirouz, Anna Chiara Brusco, Patrizia Piro

10.15-10.45 Experimental Investigation of Pressure Reducing Valves under Transient Conditions: A Laboratory Study

Caterina Capponi, Bruno Brunone, Silvia Meniconi

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10.45-11.15 Hydraulic Modelling in Unsteady-State Conditions: PRV Analysis in the Trieste Water Network

Caterina Capponi, Silvia Meniconi, Brubo Brunone

11.15-11.30 Long term hydrological performance of a blue-green roof as urban nature-based solution

Andrea Petroselli

11.30-11.45 Coffee break

11.45-12.30 Investigating the response of blue roofs under future climate scenarios

Alberto Campisano, Aurora Gullotta

12.30-13.00 Keylecture Note

YIPING GUO

13.00-14.00 Lunch break



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Sub-session 2.2—Integrated Urban Water Systems & Water Governance

14.00 Conveners intro

- Caterina Capponi - Università degli studi di Perugia
- Enrico Creaco - Università degli studi di Pavia
- Rudy Gargano - Università degli studi di Cassino e del Lazio Meridionale

14.15-14.30 Toward Smarter Water Loss Management: Application of A Digital-Twin-Based Method for Leakage Localization

Stefano Alvisi

14.30-16.00 Impact of Device Location on User-Induced Pressure Transients: Investigation on a Full-Scale Laboratory Plumbing System

Caterina Capponi, Stefano Alvisi

16.00-16.15 Coffe Break



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16.15-16.45 Detection and classification of anomalies in water distribution systems
Maurizio Righetti

16.45-17.00 Detection of deteriorated areas in water distribution networks exploiting chlorine measurements in a Bayesian framework
Giuseppe Del Giudice

17.00-17.30 Prediction of DMAs Pipe Failures Rehabilitation Priorities
Carla Tricarico, Rudy Gargano

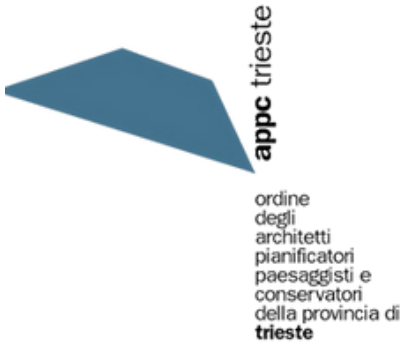
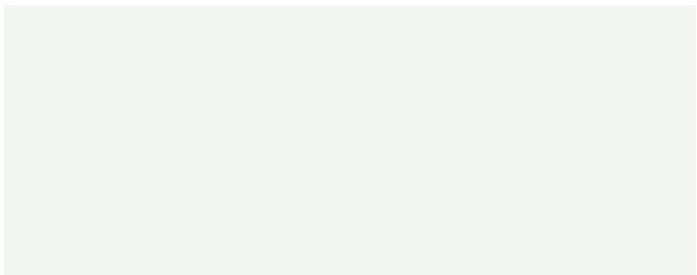
17.30-18.00 AI-based Early Warning System for Flood Risk Management in Heritage City
Ruggero Ermini

18.00-18.15 Optimising Remote Sensor and Nature-Based Solutions Allocation based on Hydrological 2D-1D numerical models: The Cerisano case study
Michele Turco, Stefania Anna Palermo, Patrizia Piro

18.15-18.30 An innovative Decision Support System for the optimal location of sustainable urban drainage systems in Genoa
Enrico Creaco

18.30 Debate and closure

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