

**call for papers****Milano,  
September  
22-23, 2022**

Water resources systems are built and managed to support irrigation, ecosystems, transport, local communities, and social amenities and will face substantial challenges in the future due to climate and social change resulting in sea level rise, more intense precipitation events, consequent augmented risk of flooding and increased demand for water resources for the agricultural and drinking sector. On the other hand, water resources systems, in particular urban water networks, are becoming increasingly sensed and interconnected revealing new potential for efficient management of this resource.

Therefore, evaluation of opportunities and constraints around the management of water resources systems requires an integrated systems approach that takes into account the fundamental drivers, impacts, and multi-purpose nature of the system of interest. These systems are hugely complex: they are nonlinear, affected by long-term dependencies and extreme events, providing services to stakeholders with competing interests. Engineers and researchers working in the area of control theory can find many challenges here. As social and environmental conditions will change in the future, also affecting the proper functioning of systems of crucial interest to society, adaptive and robust management techniques are needed to properly manage those systems in the future, also considering health and inequality issues, especially in countries where those are relevant.

### Organizer

Politecnico di Milano



### Sponsor

- IFAC - International Federation of Automatic Control
- Technical Committee on Modelling and control of Environmental Systems TC8.3
- SoftWater



### Co-sponsor

- IFAC Technical Committees on
  - Control for Smart Cities TC 9.3.
  - Control in Agriculture TC 8.1.
  - Power and Energy Systems TC 6.3.
  - Bio-ecological systems TC 8.2
- EWRI-Environmental Water Resources Systems committee
- Decision Under Deep Uncertainty society
- iEMSs

### TOPICS

This workshop aims to provide an environment where researchers, practitioners, and representatives of industry applying control methods to water resources management can meet, exchange ideas and present innovative solutions. Contributions are sought that:

1. study present and future methods for modelling and identification of water resources systems;
2. examine planning and control methods that allow for multi-purpose use, for instance the management of lakes and reservoirs;
3. modelling and control of water distribution networks;
4. present case studies of the application of innovative modelling and control methods to water resource systems.

### Paper submission

The length of regular contributions must not exceed 8 (eight) pages for a draft paper and 6 (six) pages for a final paper. Detailed instructions for manuscript preparation are available on the <https://www.ifac-control.org/events/author-guide> and also in the support section on Papercept, <http://ifac.papercept.net/conferences/support>.

The manuscript needs to be submitted in portable document format (PDF). No other electronic format will be accepted.

The procedure to generate pdf files and compliance and diagnostic tools are provided in the support section of Papercept. Acceptance of a paper will be made with the understanding that at least one of the authors will attend the CMWRS workshop to present the paper. Before the upload of the final version of a paper, at least one of the authors is required to register for the workshop. Abstract only contributions are welcome but will not be included in the proceedings.



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- **Matteo Sangiorgio**  
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Politecnico di Milano (IT)

### Registration

Early Registration Fee (by June 15): 310 EUR  
Standard Registration Fee (by July 30): 400 EUR  
Late Registration: 500 EUR

Student Early Registration Fee (by June 15): 200 EUR  
Student Standard Registration Fee (by July 30): 200 EUR  
Student Late Registration Fee: 310 EUR

### Key Dates and Deadlines

Draft Paper Submission Deadline: 31.03.2022  
Extended Abstract Submission: 13.05.2022  
Notification of Acceptance: 31.05.2022  
Full paper submission: 29.07.2022  
Workshop: 22.09.2022-23.09.2022

### Contacts

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