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Call for Sponsorship

We welcome sponsorship from industries, businesses, organizations, associations, regulators, schools and international bodies that wish to showcase products and services. We have put together a number of different packages to provide a level of participation that meets every need. We are open to other suggestions from sponsors as well. For more information please see http://www.cmwrs2019.org or contact the chair of the National Organizing Committee at a.g.kolechkina@tudelft.nl.

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IFAC
INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL

1st IFAC Workshop on Control Methods for Water Resource Systems

CMWRS2019

First announcement

19 - 20 September 2019 Delft, Netherlands

TUDelft

http://www.cmwrs2019.org

Workshop Objectives

In the world of today society places heavy demands on the environment in general and water resources in particular. Waterways provide water for irrigation, support ecosystems, facilitate transport, and provide amenities to local communities. Climate change interferes with the supply of water, so regulation of the water level to balance irrigation and environmental needs and keep the rivers navigable is of increasing importance. Sea level rise and more intense precipitation events increase the risk of flooding for which more active control solutions are needed. Achieving proper irrigation and drainage is becoming more and more difficult. If we add in the problems of drinking water supply and the role of water resources in power generation, and the need for a healthy urban and rural environment, then it is clear that every drop of water must perform many different tasks. Assessment of opportunities and constraints around the management of water resource systems requires therefore an integrated systems approach that takes into account the important drivers and impacts of the system of interest. These systems are exceedingly complex: they contain nonlinearities, time delays, event driven and longer-term components. Engineers and scientists working on control theory can find many challenges here. The demands placed on these systems are equally complex: today a water system that serves just one purpose is rare. They are open systems, influenced by many biophysical and human processes beyond our control, so we need to adapt to a changing environment and understand how these systems function. Moreover, the proper functioning of some of these systems can be a matter of life and death, which implies robustness is of the utmost importance. Finally we live in a world where inequality grows. Not just inequality of income, but also with respect to access to clean water, a healthy environment to live and raise children in, and access to a healthy and varied diet.

Topics

This workshop aims to provide an environment, where researchers on present and future methods of control for water resource systems, researchers and practitioners representing the state of the art in water resource engineering science, researchers considering the theme of water in the context of social systems, and representatives of industry can meet and exchange ideas. Contributions are sought that:

- study present and future methods of control for water resource systems;
- present case studies of the application of innovative control methods to water resource systems;
- examine control methods that allow for multi-purpose use.

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.

Registration

Early registration (by 15 April)	t.b.a. $\leq$ € 310
Standard registration (by 15 June)	t.b.a.
Late registration	€ 500
Student early registration	t.b.a. $\leq$ € 210
Student standard registration	t.b.a.
Student late registration	€ 310

Key Dates and Deadlines

Draft paper/abstract submission	17 December 2018
Notification of Acceptance	18 March 2019
Full paper submission	14 May 2019
Workshop	19-20 September 2019

Venue

Located on the campus of Delft university of Technology. Further details to be announced.

Accomodation

Accommodation is not included in the workshop registration fee.