

# 13th IWA Conference on Instrumentation, Control and Automation



## Important Dates

Call for abstracts: 1 April 2022

Deadline for abstracts: 31 May 2022

Notification to authors: 15 July 2022

Early bird registration open: 1 August 2022

Early bird registration close: 31 August 2022

Online registration close: 30 September 2022

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### ORGANIZED BY



环境模拟与污染控制国家重点联合实验室  
State Key Joint Laboratory of Environment Simulation and Pollution Control

### CO-ORGANIZED BY



THE UNIVERSITY  
OF QUEENSLAND  
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China Water & Wastewater Association China Water Industry Association



北京协同创新研究院  
Beijing Institute of Collaborative Innovation

## Welcome Message

Dear all ICA2022 participants,

You're invited to join a selected group of global experts to share and exchange knowledge and expertise at ICA2022.

ICA has been an active area in the water industry and within the IWA since the 1970's. The quadrennial ICA conference series has always been a milestone in moving the water industry towards more efficient and more robust operation and improved water quality. With the rapid development in the Internet of Things (IoT), digital transformation of the industry, and the expanded use of devices and applications, there are exponential increases in data creation and availability. The potential and challenges associated with ICA are greater than ever.

ICA2022 will provide an international forum to exchange knowledge, methodologies, and experience on all aspects of ICA for water/ wastewater treatment and transport. Specific topics of the conference will include but not limited to sensors and instrumentation systems, online monitoring and control, modelling and simulation, early warning, information systems, decision support, risk assessment, big data, internet of things and smart water systems.

This year, ICA returns to Asia after Busan 2005. It will be the first ICA conference in China. ICA2022 is organized by Tsinghua University and The University of Queensland, and will be held virtually on Oct 17-21, 2022. We look forward to receiving your submissions, and joining us this October to extend our discussion of water-system ICA in this digital era.

## Conference Chairs



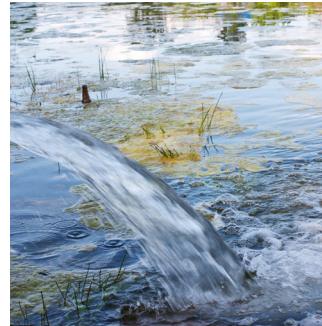
Prof. Zhiguo Yuan,  
The University of  
Queensland



Prof. Hanchang Shi,  
Tsinghua University

# Conference Themes

- © Sensors and instrumentation systems
- © Online monitoring and control of
  - water treatment and distribution systems
  - wastewater collection (sewer networks) and treatment systems
  - advanced water treatment systems for water recycling and reuse
  - river quality
- © Integrated control of
  - water production and distribution
  - wastewater treatment plant
  - sewers and wastewater treatment plants
  - sewer-shed and rivers
  - centralized and decentralized systems
- © Decision support systems
  - early warning
  - fault detection and diagnosis
  - fault-tolerant control
  - modelling and simulation for control and operation
  - information systems for operation and control
  - risk assessment
- © Digital water
  - Internet of Things (IoT), remote monitoring and control
  - Information Communication Technology (ICT) for water
  - big data, machine learning, artificial intelligence
  - smart water systems as a component of smart cities



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