

## DCS-Water '25: 2nd International Conference on the Design of Cyber-Secure Water Plants

October 29, 2025 8:00am – 4:00pm, Reception following The Water Tower, Buford, Georgia and Virtual

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## **Conference Program**

8:00	Continental Breakfast and Networking (Lobby)
8:30	Conference Opening (Multipurpose Room)  Melissa Meeker, CEO of The Water Tower
8:35	Setting the Stage for Cybersecure Water Utilities  Cole Dutton, Cybersecurity Engineer, U.S. Environmental Protection Agency INVITED
8:45	Introduction of Keynote I  Aditya Mathur, iTrust, Singapore University of Technology and Design
8:50	Water 4.0 and the Road to 5.0: Resilience, Security, and the Future of Water Systems Stefano Galelli, Cornell University, Ithaca, NY, USA
9:20	Regular Session I Chair: Gauthama Ramani
	Customizing Lightweight TTnet Architecture with TFHE for Privacy-Preserving Deep Learning Time-Series Analytics in Water Infrastructures Monitoring Alvin Chew, Bently Systems, Singapore
9:50	TE-LSTM-AE: A Group-Aware Temporal Autoencoder for Anomaly Detection in Water Treatment Systems  Babangida Abdullahi and Sunil Vadera, University of Salford, UK
10:20	XAI for Intrusion Detection in Water Distribution Systems: A Case Study Using the WADI Dataset Salman Shahid, University of Alabama, Birmingham, USA

10:50	Anomaly Detection in Cyber Physical Systems  Wen Ni Pang and Jonathan WW Goh, Ensign Infosecurity, Singapore
11:20	A Context Aware Cybersecurity Assessment Methodology for Industrial Control Systems in the Water Industry Fabian Voggensberger¹, João Henrique Schmidt², Victor Mattos², Gaurav Srivastava¹ Daniel S. Menasché², Amit Bhaya², and Alan O. de Sá³,¹Siemens Corporation, Princeton NJ, USA, ²Federal University of Rio de Janeiro (UFRJ), Brazil, ³University of Lisbon, Portugal
11:50	Cybersecurity and Infrastructure Security Agency (CISA) Tools and Resources Stanton Gatewood, Cybersecurity State Coordinator (Georgia) - INVITED
12:10	Lunch will be held in the lobby
12:45	Introduction of Keynote II  Aditya Mathur, iTrust, Singapore University of Technology and Design
12:50	Vulnerabilities of Yesterday, Threats of Today – Cyber-Physical Defenses Wenke Lee, Georgia Tech, Atlanta, USA
1:20	R&D For OT Technologies <b>Chair: Aditya Mathur</b> OT as a Cornerstone of Singapore's R&D Landscape <b>Zhihao Pang,</b> Assistant Director, Cyber Security Agency, Singapore Automating Anomaly Detection Using Al <b>Jonathan Goh</b> , Ensign Infosecurity  Scaling up Design-Infused Anomaly Detection <b>Aditya Mathur</b> and <b>Gauthama Ramani</b> SUTD, Singapore
2:50	Regular Session II <b>Chair: Melissa Meeker</b> Building a Resilient OT Cybersecurity Program for Water Utilities: A Holistic Approach <b>Kam Chumley-Soltani</b> (Armis) and <b>Keith Walsh</b> (1898 & Co.)
3:20	Operational Resilience During Active Cyberattacks: Governance, Risk, Resilience, and Compliance in Water Utilities  Kevin Montague (Dekalb County) and Kenn Bengtsson (Tetra Tech)
3:45	Securing Critical Water Infrastructure—A Converged OT/IT Cybersecurity Approach Manoj Kumar, Global Solutions Group
4:15	Closing Networking Reception to follow