

## 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** 

## Thank you to our Conference Sponsors





## **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
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 <b>Chair:</b> TBD
	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	Data Driven Approach for the Identification of Rules and Model Features for 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 Voggensberger <sup>1</sup> , João Henrique Schmidt <sup>2</sup> , Victor Mattos <sup>2</sup> ,  Gaurav Srivastava <sup>1</sup> Daniel S. Menasché <sup>2</sup> , Amit Bhaya <sup>2</sup> , and Alan O. de Sá <sup>3</sup> , Siemens Corporation, Princeton NJ, USA, Federal University of Rio de Janeiro (UFRJ), Brazil, University of Lisbon, Portugal
11:50	Cybersecurity and Infrastructure Security Agency (CISA) Tools and Resources Stanton Gatewood, Cybersecurity State Coordinator (Georgia)
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 in RIE2030 Andre Foo, Cyber Security Agency, Singapore Automating Anomaly Detection Using AI Jonathan Goh, Ensign Infosecurity Scaling up Design-Infused Anomaly Detection Aditya Mathur and Gauthama Ramani SUTD, Singapore
2:50	Coffee Break and Networking (Lobby)
3:00	Regular Session II <b>Chair:</b> TBD  Building a Resilient OT Cybersecurity Program for Water Utilities: A Holistic Approach  Kam Chumley-Soltani (Armis) and Keith Walsh (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)
3:40	Securing Critical Water Infrastructure—A Converged OT/IT Cybersecurity Approach <b>Manoj Kumar</b> , Global Solutions Group
4:00	Closing Networking Reception to follow