

10th Annual Industrial Control System Security (ICSS) Workshop

In conjunction with the Annual Computer Security Applications Conference

Alohilani Resort in Waikiki, Honolulu, Hawaii

Tuesday, 10 December 2024

8:30 a.m. – 5:00 p.m.

Agenda

Time Slots		Workshop Program
Start	End	
8:30	8:40	<p>Welcome Slides (10 mins):</p> <p>General Co-chairs: Harvey Rubinovitz, The MITRE Corporation, and Greg Shannon, Idaho National Laboratory</p> <p>PC Co-Chairs: Gabriela Ciocarlie, The Cybersecurity Manufacturing Innovation Institute (CyManII) Irfan Ahmed, Virginia Commonwealth University</p> <p>Panel Chair: Tomomi Aoyama, Nagoya Institute of Technology, Japan</p>
8:40	9:40	<p>Keynote (1 hour): <i>How to Attack and Defend Wind Farms</i> Sujeet Sheno, F.P. Walter Professor of Computer Science and Professor of Chemical Engineering University of Tulsa, Oklahoma</p>
9:40	10:00	<p>Research Paper (20 mins): <i>Assurance of Application Security on IIoT Platforms with Knowledge Augmentation</i> Yannick Landeck and Dian Balta (fortiss GmbH) and Martin Wimmer and Christian Knierim (Siemens AG)</p>
10:00	10:30	Break (30 minutes)
10:30	11:15	<p>Invited Talk (45 mins): <i>AI-assisted Cyber Targeting</i> Sarah Freeman, The MITRE Corporation</p>
11:15	12:00	<p>Invited Talk (45 mins): <i>Researching LLMs and Available Open-Source Tooling for Secure and Practical Use</i> Curtis Taylor, Monika Akbar, Gabriela Ciocarlie, Matt Luallen (CyManII)</p>
12:00	13:30	Lunch (1 hour and 30 minutes)
13:30	14:15	<p>Invited Talk (45 mins): <i>Emulating Adversary Behaviors in Well-Known OT protocols: Caldera for OT</i> Nick Tsamis, The MITRE Corporation</p>
14:15	14:35	<p>Research Paper (20 mins): <i>Towards Provable Security in Industrial Control Systems Via Dynamic Protocol Attestation</i> Arthur Amorim (University of Central Florida), Trevor Kann (Carnegie Mellon University), Max Taylor and Lance Joneckis (Idaho National Laboratory)</p>
14:35	14:55	<p>Research Paper (20 mins): <i>MFAA: Historical Hash Based Multi-Factor Authentication and Authorization in IIoT</i> Eyasu Getahun Chekole and Jianying Zhou (Singapore University of Technology and Design)</p>
15:00	15:30	Break (30 minutes)
15:30	15:50	<p>Research Paper (20 mins): <i>Attacks on EtherNet/IP and Migrations through CIP Security File</i> Alexander Gebhard and Debbie Perouli (Marquette University)</p>
15:50	16:10	<p>Research Paper (20 mins): <i>Conducting Attack Scenarios and Forensic Techniques in a Virtual ICS Testbed</i> Chris Churilla, University of Arizona</p>
16:10	17:00	<p>Panel (50 mins): <i>Beyond Automation: Empowering ICS Operators in Cyber Defense</i></p> <p>Moderator: Tomomi Aoyama, Nagoya Institute of Technology, Japan</p> <p>Panelists: Sokratis Katsikas, Norwegian University of Science and Technology Nick Tsamis, The MITRE Corporation Max Taylor, Idaho National Laboratory</p>
17:00		Wrap-up