

Industrial Control System Security (ICSS) Workshop
In conjunction with the Annual Computer Security Applications Conference

Tuesday, 6 December 2022
8:30 a.m. – 5:00 p.m.

Agenda:

- 8:30 *Welcome and Introduction*, Harvey Rubinovitz, The MITRE Corporation; Stacy Prowell, Oak Ridge National Laboratory; Irfan Ahmed, Virginia Commonwealth University; Constantinos Kolias, University of Idaho
- 8:50 *“Keynote Presentation: Resilient Control Systems and the Advancement of the Cyber Feedback Loop”*, Craig G. Rieger, Idaho National Laboratory
- 10:00 **Break (20 minutes)**
- 10:20 *Formal Verification of the WirelessHART Protocol - Verifying Old and Finding New Attacks*, Martin Gunnarsson, RISE Research Institutes of Sweden AB
- 10:55 *Cybersecurity in the Smart Grid: Practitioners’ Perspective*, Jacqueline Meyer, and Giovanni Apruzzese, University of Liechtenstein
- 11:30 *Power-based Malware Detection in Linux Boot*, Ge Li, Alexander Cathis, Shijia Wei, Mohit Tiwar, Andreas Gerstlauer, and Michael Orshansky, The University of Texas at Austin; Andrew Lu, Liberal Arts and Science Academy; Ross Brown, and Alexander Liu, Applied Research Laboratory, The University of Texas at Austin
- 12:05 **Lunch (1 Hour and 25 minutes)**
- 1:30 *“Keynote Presentation: Secure Manufacturing and Supply Chain Networks”*, Gabriela Ciocarlie, University of Texas San Antonio
- 2:30 *Device-Centric Ransomware Detection using Machine Learning-Based Memory Forensics for Smart Inverters*, Alycia Jenkins, Bohyun Ahn, Alve Rahman Akash, and Taesic Kim, Texas A&M University
- 3:05 **Break (25 minutes)**
- 3:30 *“Invited Presentation: BLOC: A Game-Theoretic Approach to Orchestrate CPS with Check Blocks against Cyber Attacks”*, Mina Guirguis, Texas State University
- 4:15 *“Invited Presentation: How are PLCs Insecure by Design? A story of Experiments and Experiences on Real-world PLCs”*, Irfan Ahmed, Virginia Commonwealth University
- 5:00 *Discussion Period and Wrap-up, Summary and Topics for Next Year*, Harvey Rubinovitz, The MITRE Corporation; Stacy Prowell, Oak Ridge National Laboratory; Irfan Ahmed, Virginia Commonwealth University; Constantinos Kolias, University of Idaho