IEEE Security and Resiliency of Critical Infrastructure and Space Technologies (SR-CIST Workshop)

Wednesday, October 30, 2024

The Darcy Hotel, Washington D.C., USA

<u>Gaston Room</u>

07:15 AM - 08:00		AM Registration & Continental Breakfast (provided by conference)
8:30am -10 am		**Panel: Industrial Internet of Things (IIoT) Security**
		Panelists:
		Dimitrios Georgakopoulos, Director of Swinburne's key IoT Lab
		Henry Haswell, Southwest Research Institute
		Joseph Slowik, MITRE Corporation
		Matthew Rogers, Cybersecurity and Infrastructure Security Agency (CISA)
		Moderator: **Mai Abdelhakim,** University of Pittsburgh
10:00 am - 10:15am		Break (with the whole conference)
10:15 am -12:15 pm		**SR- CIST Session 1: CPS Security & Resiliency** **Session Chair:** **Henry Haswell,** Southwest Research Institute
	10:15 - 10:40	"Organizational Influence on Supply Chain for Digital Energy Infrastructure: Business Models, and Policy Landscape", Gabriel Weaver (INL), Megan Culler (INL) and Emma Stewart (INL)

	10:45AM - 11:10 AM	"Development of a Cyber-Physical Model and Emulation of an Oil and Gas Compressor Station for Cybersecurity Research and Development", Adam J. Beauchaine (Sandia National Laboratories), Titus A. Gray (Sandia National Laboratories), Andrew S. Hahn (Sandia National Laboratories), Lee T. Maccarone (Sandia National Laboratories), and Scott T. Bowman (Idaho National Laboratory)
	11:15AM - 11:40AM	"On the Application of Cyber-Informed Engineering", Benjamin Lampe (Idaho National Laboratory)
	11:45 AM -12:10 PM	" Formal Verification of a Nuclear Plant Thermal Dispatch Operation Using System Decomposition" Abhimanyu Kapuria (University of Pittsburgh) and Daniel Cole (University of Pittsburgh)
12:15 PM – 01:15 PM		Lunch break (with co-located conferences)
1:15 PM - 3 PM		**SR- CIST Session 2: OT and Space Systems Security** **Session Chair:** **Benjamin Lampe,** Idaho National Laboratory
	1:15 PM - 1:40 PM	"Statistical Methods for Developing Cybersecurity Response Thresholds for Operational Technology Systems Using Historical Data" Connor Grady (Sandia National Laboratories), Shaw X. Wen (Idaho National Laboratory), Lee T Maccarone (Sandia National Laboratories), Scott T. Bowman (Idaho National Laboratory)
	1:40 PM - 2:05 PM	"Defensive Priorities in Securing Space-Based Infrastructure Dependencies" Joe Slowik (The MITRE Corporation)
	2:05 PM - 2:30 PM	"Advancing Spacecraft Security Through Anomaly Detection", Patrick Saenz (Southwest Research Institute), Nathan Wiatrek (Southwest Research Institute), Kisa Burnett (Southwest Research Institute), Szu-Li Lin (Southwest Research Institute) and Samantha Liu (Southwest Research Institute)

	2:30 PM - 2:55 PM	"Provably Secure and Optimal Inter-Satellite Link Authentication for Low Orbit Satellites", Kerry Farrea (Deakin University), Zubair Baig (Deakin University), Robin Doss (Deakin University) and Dongxi Liu (Data61) "
3 - 5PM		Joint with IEEE TPS Conference - Panel Title: AI vs AI: The Inevitable Next Cyber Frontier (Room: Logan Ballroom)

Detailed Program of the workshop and co-located conferences can be found here