

Cybersecurity of Critical Infrastructure

Session Co-Chairs:

- Katherine Davis, Assistant Professor, Department of Electrical and Computer Engineering, Texas A&M University
- Roman Danyliw, Deputy Chief Technology Officer, Software Engineering Institute, Carnegie Mellon University

The 16 critical infrastructures are foundational enablers of the economy; public safety and services; and national security. All of these infrastructures depend on software-based systems, interconnectivity and contain a cyber-physical element. While the criticality of cybersecurity is clear, quantifying and achieving it remains a considerable challenge. This session examines the current infrastructure risks; and the design-in and operational resiliency practices used to mitigate cyber-originated threats through a vignette approach of representative sectors.

In this session, we feature speakers representing a balance of sectors with unique perspectives on critical infrastructure cybersecurity. Jason Hill from DHS/CISA is the Deputy Chief of NCATS who will talk about the state of play in critical security. Adam Hahn from MITRE will talk about securing the forming complex cyber-physical systems of systems from the cyber-originated threats and vulnerabilities that result from the convergence of infrastructures. Peter MacKay is the senior director of security engineering at GE and will talk about designing in security for critical infrastructure industrial control systems.

Speakers:

State of Infrastructure Security,

Jason Hill, *Deputy Chief, National Cybersecurity Assessments and Technical Services (NCATS), Cybersecurity and Infrastructure Security Agency (CISA), Department of Homeland Security (DHS)*

Bio: <https://www.linkedin.com/in/jason-hill-2716a530/>

Threat-informed Defenses for Industrial Control Systems

Adam Hahn, *MITRE Corporation*

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Cybersecurity and Wind Farms

Peter MacKay, *Senior Director of Security Engineering, General Electric*

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