



SYSTEMS SECURITY
symposium

IEEE NDIA INCOSE System Security Symposium

April 6-9, 2020



The IEEE-INCOSE-NDIA Systems Security Symposium seeks research papers and application studies that focus on the development of secure, safe, and resilient systems. This symposium attempts to address the convergence of cybersecurity, safety, and engineering with interest in the effective application of security principles, methods, and tools to complex systems such as cyber-physical systems, autonomous systems, transportation vehicles, medical devices, large IoT systems, and other systems of interest. Preference will be given to papers and case studies that bridge theory to practice.

Systems Security Symposium 2020

Topics

- > Systems Security Work Focused on Advancements in Theory, Practice, and Education
- > Engineering of Safe, Secure, and Resilient Systems
- > Examples of Mission/Systems Assurance and Assurance Cases
- > Model Based Engineering focused on Security, Safety, Trust, Resiliency
- > Affordable and Scalable Approaches to Hardware, Software, Firmware Assurance
- > Novel Architecture Design and Analysis Examples or Trade-Space Studies
- > Trust of Complex Systems with Emphasis on Cyber-Physical Systems
- > Security considerations for machine learning / artificial intelligence
- > Large-Scale DevSecOps and Agile Approaches for System Development
- > System Security Design Considerations for Cloud Environments
- > Verification, Validation, and Evidences for Secure System Development
- > Extensions of Formal Methods to System-Level Evaluation
- > Cybersecurity in Manufacturing and Supply Chains
- > Case studies to include automotive, transportation, space, and others
- > Cyber-Physical System Event Detection, Investigation, Forensics, and Malware Analysis
- > Tailored Risk Management Approaches for Large Complex Systems
- > Attack/Defense Modeling, Simulation, and Characterization
- > Techniques for Cyber Risk Buy Down in Legacy Systems, Infrastructure, and Enterprises
- > Policy, Ethical, Legal, Privacy, Economic, and Social Issues

<http://www.ieeesystemssecuritysymposium.org>