



Transforming the Resilience of Critical Infrastructure Systems and Communities

Resilience Week Objective: A Symposium dedicated to advancing the interdisciplinary dialog on policy and technologies that accelerate critical infrastructure and community resilience to unexpected and malicious threats.

Session 04: Wireless Security including 5G and Beyond

Session Chair

- Chair – Arupjyoti (Arup) Bhuyan, Idaho National Laboratory, arupjyoti.bhuyan@inl.gov
- Co-chair – Gurdip Singh, Syracuse University, gsingh06@syr.edu

Format and Duration

Several Talks of 15 minutes are being planned. If time permits a panel discussion with all the speakers on secure wireless communication for 5G will conclude the session.

Session Abstract

The speakers in this session will discuss the significant improvements to speed, latency, and capability for massive M2M (machine to machine) communication brought by 5G and more importantly, the need for their secure and resilient use. 3GPP Security Standards improvements with 5G and how these improvements can be utilized will be discussed.

Topics includes

Secure Wireless Systems: Current wireless vulnerabilities and how to address them, 5G security improvements, Secure IoT with 5G, Security, Privacy and trust in wireless communications, Secure Communications for IoT of cyber-physical systems (including but not limited to: power transmission and distribution, control systems, industrial IoT, 5G Cellular drones etc.), Secure Edge Computing in 5G.