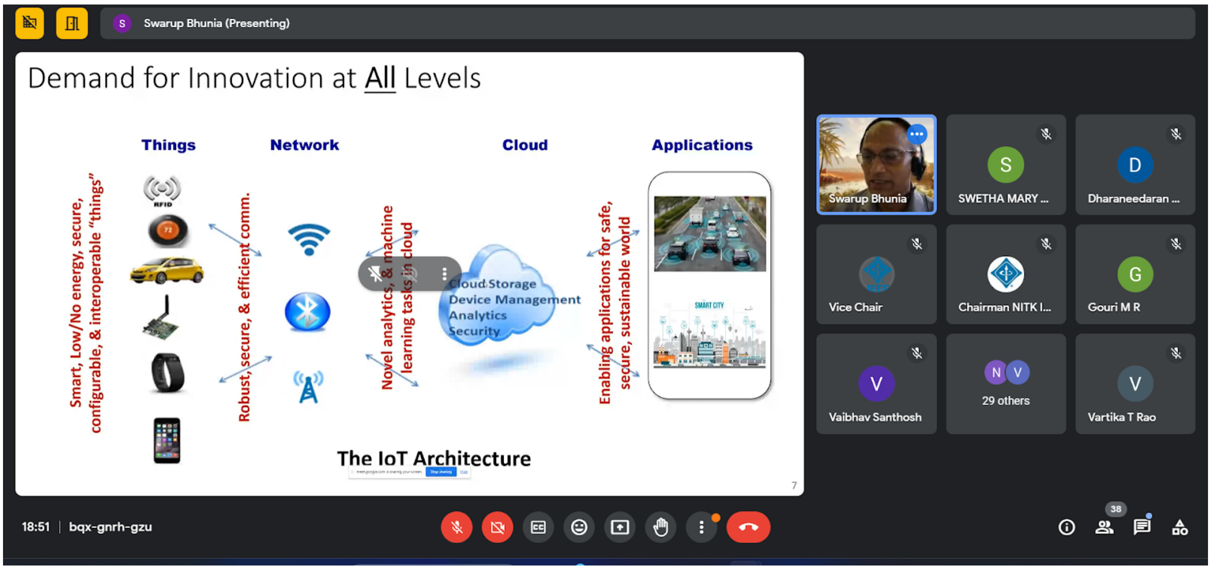
Name of the Event: New Frontiers of Hardware Security in the IoT Regime
Event Type: Athenaeum Talk Series
Speaker: Dr. Swarup Bhunia
SIG: CompSoc

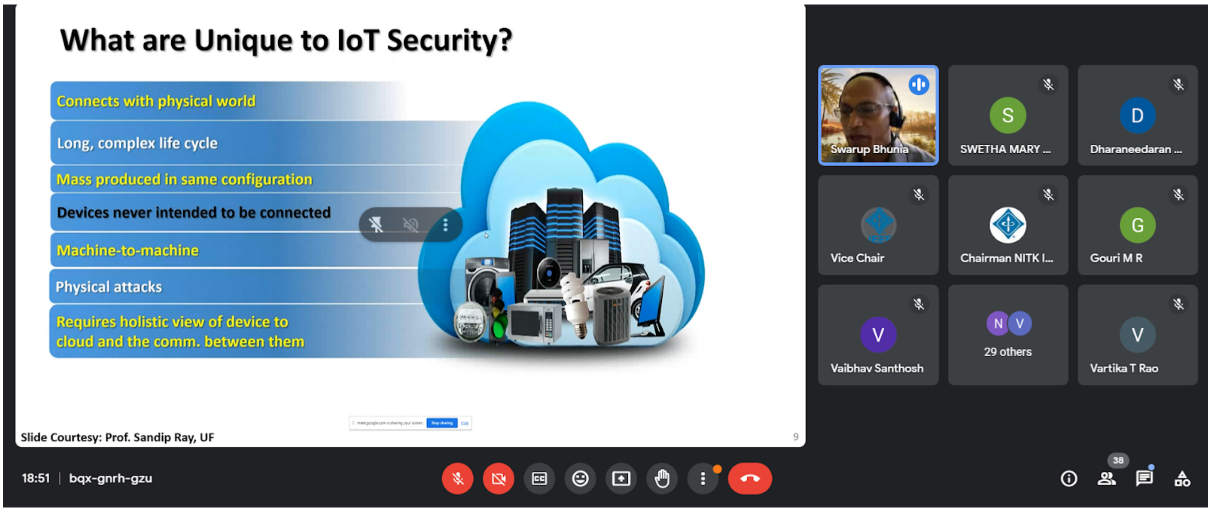
Event Date: Thursday, October 5th
Event Time: 6:30 PM - 7:15 PM
Location: Online
Turnout: 25
Event Description:

Dr. Swarup Bhunia, a Professor of IoT at the University of Florida, spoke about the significant challenges associated with IoT security in today's interconnected world. The event provided valuable insights into the critical domain of IoT security and emerging solutions for secure hardware. The talk focused on the concept of trustworthy hardware and how recent security attacks on microchips and circuits have raised concerns and the need to establish hardware trust anchors in IoT devices. The presentation shed light on the security issues stemming from current business models, which underscored the urgency of enhancing hardware security. Dr. Bhunia highlighted the integral role of verification in ensuring hardware security and discussed the development of novel security primitives and design-for-security approaches as essential elements in achieving secure hardware for diverse IoT applications. The attendees gained valuable insights into the importance of secure hardware, the role of verification, and innovative approaches to address evolving security threats.

Event Pictures:



Demand for Innovation at All Levels



What are Unique to IoT Security?

- Connects with physical world
- Long, complex life cycle
- Mass produced in same configuration
- Devices never intended to be connected
- Machine-to-machine
- Physical attacks
- Requires holistic view of device to cloud and the comm. between them

Slide Courtesy: Prof. Sandip Ray, UF