Tutorial 4

T4:Title of the tutorial: IoT Security: the darker side of the cloud

Abstract of the tutorial:

Before the world started to enjoy the new dimensions of IoT technology advancements, IoT Security is becoming a big threat. We will start the session, with history of IoT and how it is changing the world from conventional to smart. Importance of data security and privacy concerns. Thus, moving to the challenges and complexities of IoT Security. Further we will discuss the issues with access control, IoT botnet, confidentiality, human vetting, vulnerability management, Identity of Things (IDoT), Identity and access management (IAM), single sign-on (SSO) - universal authentication, data transmission, patching, monitoring, attacks like Distributed Denial of Service (DDoS), touching upon some of the latest IOT Security concern like "smart dust" and its shadow side etc. In summary, we will showcase the complete 'Security Ecosystem' of the headless IoT devices to propose the mantra of 'Secure by default' thus to prevent big issues originating from small data.

Biography of Speaker:

Yadav Preet, NXP Semiconductors, Noida, India

Yadav Preet, has been involved in diversify VLSI domains of, CAD, AMS design & verification, and core technology development throughout his 14+ years hands-on experiences. He received B. Tech. degree in ECE from Kurukshetra University and M. Tech. degree in VLSI Design & CAD from Thapar University. He worked at Semiconductor Complex Ltd. and, Cadence Design Systems. In 2008, he joined NXP Semiconductors (then Freescale Semiconductor), worked on Process Design Kits, leading handful of technologies from matured to advance nodes. Presently he is working in Analog and Mixed Signal SOC Group in Automotive Microcontrollers and Processors R & D. He has received President Award in Scouts & Guides, and various certifications of merit. He has 19+ publications in international/national IEEE conferences, with three best paper awards on his name. He is Fellow member of The Institution of Electronics Telecommunication Engineers (IETE) and lifetime member of Indian Microelectronics Society (IMS) and Indian Society of Systems for Science and Engineering (ISSE).