

Unlocking the Power of Edge Computing for CPS

Friday Nov 16, 10:15 AM to 12:45 PM (2.5 hours)

Location: NSF CPS PI meeting (Beech on the lower level)

10:15 AM – 10:25 AM

Welcome and overview of the day

10:25 AM to 11:05 AM: Session A (Chair: Anish Arora)

(Three talks each 8 mins, followed by 15 min Q&A for the presenters)

Bob Iannucci, CMU-Silicon Valley, "Network Edge Considered Harmful"

Mung Chiang, Purdue/Princeton, "Fog/Edge and Dispersive AI"

Mahadev Satyanarayanan, CMU, "Research Challenges in IoT"

11:05 to 11:10

Stretch time

11:10 AM to 11:50 AM: Session I (Chair: Bob Iannucci)

(Three talks each 8 mins, followed by 15 min Q&A for the presenters)

Prashant Shenoy, UMass, "Edge-enabled Utility-preserving Privacy for Data-driven CPS Systems"

Bharath Balasubramanian, AT&T, "State Management for Telco's Edge"

Vladimir Kolesnikov, Georgia Tech, "Efficient Crypto Techniques for the Edge"

11:50 to 11:55 AM

Stretch time

11:55 AM to 12:20 AM: Session 1 (Chair: Kishore Ramachandran)

(Two talks each 8 mins, followed by 10 min Q&A for the presenters)

Aakanksha Chowdhery, Google Brain, "From Cloud to Edge: Advances in Mobile AI"

Sanjiv Doshi and Russ Gyurek, CISCO, "Practical approaches to managing, orchestrating and securing cyber-physical systems"

12:20 to 12:45 PM: Wrap up Panel (Chairs: Anish Arora and Kishore Ramachandran)

All the speakers

12:45 PM: Adjourn