CNS 2018 Research Review Agenda

Thursday, October 25, 2018

8:45 a.m.  Breakfast [The Institute of the Americas Complex, Malamud Room at the Weaver Conference Center]

9:00 a.m.  Welcome and Round Table Introductions
Stefan Savage, CNS Co-Director and CSE Professor

9:15 a.m.  Stefan Savage - Session Chair

Expanding Across Time to Deliver Bandwidth Efficiency and Low Latency (30 min.)
Max Mellette, CSE Postdoctoral Scholar (George Porter)

Inferring Persistent Interdomain Congestion (30 min.)
Amogh Dhamdhere, Caida Associate Research Scientist

High-Resolution Spectrum Monitoring (15 min.)
Yeswanth Guddeti, ECE Graduate Student (Dinesh Bharadia and Aaron Schulman)

10:30 a.m.  Break and Informal Interaction (15 min.)

10:45 a.m.  Geoff Voelker - Session Chair

Finding and Fixing Performance Pathologies in Persistent Memory Storage Stacks (30 min.)
Juno Kim, CSE Graduate Student (Steven Swanson)

Orion: A Distributed Persistent Memory File System (30 min.)
Jian Yang, CSE Graduate Student (Steven Swanson)

11:45 a.m.  Group photograph [Institute of the Americas Courtyard]

12:00 p.m.  Lunch [Great Hall]

1:20 p.m.  Industry Member Lightning Talk Sign-up [Malamud Room]

1:30 p.m.  Deian Stefan - Session Chair

Inferring Information Flow in Large-Scale Heterogeneous Systems (30 min.)
Gary Soeller, CSE Graduate Student (Deian Stefan)

A Framework for Writing Verified IOT Programs Using LowStar (30 min.)
Shravan Narayan, CSE Graduate Student (Deian Stefan)

ADVERSE: Automated Discovery of Vulnerabilities and Exploits Using Reverse Symbolic Execution (30 min.)
Craig Disselkoen, CSE Graduate Student (Deian Stefan)

3:00 p.m.  Break and Informal Interaction (30 min.)

3:30 p.m.  George Porter - Session Chair

Pangolin: A Fault-Tolerant Persistent Programming Library (15 min.)
Lu Zhang, CSE Graduate Student (Steven Swanson)

Following Their Footsteps: Characterizing Account Automation Abuse and Defenses (30 min.)
Louis DeKoven, CSE Graduate Student (Stefan Savage and Geoff Voelker)

Detecting Bluetooth-Enabled Credit Card Skimming at Gas Stations (30 min.)
Nishant Bhaskar and Maxwell Bland, CSE Graduate Students (Aaron Schulman)

5:00 p.m.  Lightning talk round (45 min.)

6:00 p.m.  Graduate Student Poster Session and Dinner Reception [Great Hall]

*All sessions held in the Institute of the Americas Complex, Malamud Room at the Weaver Conference Center unless otherwise noted.
Friday, October 26, 2018

9:00 a.m.  Breakfast [The Institute of the Americas Complex, Malamud Room at the Weaver Conference Center]

9:30 a.m.  Arun Kumar - Session Chair

**Sprocket: A Serverless Video Processing Framework for the Cloud** *(30 min.)*
Lixiang Ao, CSE Graduate Student (George Porter)

**Declarative Transfer Learning from Deep CNNs at Scale** *(30 min.)*
Supun Nakandala, CSE Graduate Student (Arun Kumar)

**Hierarchical Learning and Inference Beyond the Edge** *(30 min.)*
Anthony Thomas, CSE Graduate Student (Tajana Rosing)

**Towards Optimized Distributed ML Systems** *(30 min.)*
Arun Kumar, CSE/CNS Faculty

11:30 a.m.  Open Floor [feedback from company representatives]

12:00 p.m.  Lunch [Deutz Room]

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