

## Stanford Platform Lab Annual Review

### AGENDA

Stanford University

February 10-11, 2021

#### Session 1: February 10th 2:00 — 3:30pm

- State of Platform Lab — Guru Parulkar, Platform Lab Executive Director | Slides
- Efficient Video Object Detection — Huizi Mao | Slides
- R2E2: Low-Latency Path Tracing of Terabyte-Scale Geometry using Thousands of Cloud CPUs — Sadjad Fouladi | Slides

**3:30 — 4:00pm      Break**

#### Session 2: February 10th 4:00 — 5:30pm

- Timeliness: A new primitive for distributed systems and networks – Balaji Prabhakar | Slides
- CloudEx: Experience and Learnings from teaching in CS 349F – Jinkun Geng, Ahmad Ghalayani and Vig Sachidananda | Slides
- On-Ramp: Edge-based congestion management with accurate clocks – Shiyu Liu | Slides
- Storage Stories: shared, local and shared again – Manoj Wadekar, Facebook | Slides

#### Session 3: February 11th 1:00 — 2:30pm

- DBOS: Data-Centric Operating System — Peter Kraft and Qian Li | Slides
- A Transparent Auto-Scaling Cache for Serverless Applications — Francisco Romero | Slides
- Message Serialization with High Throughput and Low Latency — Deepti Raghavan | Slides

**2:30 — 3:00pm      Break**

#### Session 4: February 11th 3:00 — 4:30pm

- Very Low Latency, Programmable Transport Layer for NICs — Serhat Arslan | Slides
- Automatic path verification — Sundararajan Renganathan | Slides
- Characterizing and Taming Model Instability Across Edge Devices — Jenya Pergament | Slides