Spring 2024 IAB Meeting, May 10, 2024
UC Santa Cruz Engineering Event Center (E2-180) and Courtyard

Invited Guests Please Register Here

Zoom link will be provided to registered guests

Agenda Highlights:

Alumni Highlight Talk: Memory-Centric Energy-Efficient Computing Systems
Rekha Pitchumani, Samsung

CXL Panel

Pankaj Mehra  Matt Bromage  Mats Oberg

Rekha Pitchumani  Kirk Bresniker
**Detailed Agenda**

8:30 - 9:00 am  Check-in and Breakfast

9:00-9:30 Welcome and Introductions and LIFE Forms [slides]

**9:30-10:50 Project Updates 1**

- Towards Emulating CXL-SSD with QEMU (Lokesh N. Jaliminche)
- DASSL: Deployable Anonymity Systems with Security in the Long Term (Kyle Fredrickson)
- Speculative Common Path Optimizations for Datacenter Workloads (Saba Jamilan)
- Bede: Exploiting CXL-Memory for Job Scheduling (Pooneh Safayenikoo)

10:50 –11:00 Coffee Break

**11:00–11:30 Alumni Highlight Talk:**

- Memory-Centric Energy-Efficient Computing Systems (Rekha Pitchumani, Samsung)

**11:30–12:30 Project Updates 2:**

- Lethe: Portable, Asynchronous Secure Deletion (Eugene Chou)
- Application-Specified Memory Management (Allen Aboytes)
- Towards Accelerating ANN performance in vector databases (Jayjeet Chakraborty)

12:30–1:30  Lunch

**1:30–2:45 Project Updates 3:**

- SLO-Aware Scheduling in Ephemeral Storage Systems (Minghao Xie)
- High Throughput and One-Round-Trip RDMA for Disaggregated Memory Systems (Yi Liu)
- MVVM: A WASI-empowered remote process resuming lightweight virtual machine (Yiwei Yang)
- PPFaaS: Efficient Autoscaling in Serverless through Dynamic Pipelining (Yinzhe Zhang)
2:45 – 3:00 Coffee Break

3:00 – 4:00 Industry-Academia Panel: CXL Composable and Computational Memory Programming
Moderated by Pankaj Mehra (UCSC; Elephance)
Industry Panelists: Matt Bromage (Arm), Mats Oberg (Marvell), Rekha Pitchumani (Samsung), Kirk Bresniker (HP Labs)

4:00 – 4:15 LIFE Forms Review

4:15 – 4:45 Financial Overview, New Business and Feedback to Center Director (IAB Members only session)

4:45 – 6:30 Poster Session and Mixer at the Engineering Courtyard

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