



IAP Newsletter Q3 2015

Cloud Workshops

- The Berkeley Workshop was well attended with many terrific talks and posters. Please see a summary here - <http://www.industry-academia.org/event-berkeley-cloud-workshop.html>
- The Cornell Workshop is scheduled for Friday October 2, 2015. Expect a packed day of talks and posters from leaders in both ECE and CS, and some <http://www.industry-academia.org/event-cornell-workshop-2015.html>
- The CMU Workshop is being planned for Spring 2016 in Pittsburgh.

Open Source Student Projects

We have a number of students and profs involved in open source and other collaborative projects with IAP members. Let us know if you have a project in mind for Fall 2015 or Spring 2016

- OpenDaylight, OpenStack, ARM servers - <http://www.industry-academia.org/student-projects.html>

OpenStack Training for Students and Professionals at CMU-Si Valley

24 students and professionals earned a CMU Certificate at our last workshop on Aug 10-13 - <http://www.ini.cmu.edu/degrees/openstack/index.html>

Other Recent and Upcoming Events

- Student Project Demos at CiscoLive! in June 2015- <http://www.bu.edu/hic/2015/06/23/boston-university-students-showcased-novel-open-source-internet-of-things-iot-solutions-at-cisco-live-san-diego/>
- 2015 Flash Summit on August 11-13, 2015, Santa Clara Convention Center – Several students participated in the IAP booth. Keynotes were presented by IAP members Samsung, SanDisk, Seagate, and SK Hynix <http://www.industry-academia.org/event-flashsummit.html>

Best Paper Awards for Students

- Yu Cai, CMU (Prof. Onur Mutlu) – 2015 HPCA Best Paper Runner Up <https://www.ece.cmu.edu/news/story/2015/02/hpca-best-paper.html>
- Martin Maas, Berkeley (Prof. Krste Asanović) – 2015 ASPLOS Best Paper <https://aspire.eecs.berkeley.edu/2015/03/paper-co-authored-by-aspire-student-martin-maas-and-aspire-alum-mohit-tiwari-wins-asplos-2015-best-paper-award/>

- Justin Meza, CMU (Prof. Onur Mutlu) – 2015 HiPEAC Best Presentation
<http://www.ece.cmu.edu/news/story/2015/02/hipeac-best-presentation.html>

Updates on Student Presentations at IAP Workshops

- **2013 Cornell Workshop Best Poster Award** – Qi Huang, et. al., “Advanced Photo Caching on Flash for Facebook.”, 13th USENIX Conference on File and Storage Technologies (FAST '15). Santa Clara, CA. February 2015.
http://www.cs.cornell.edu/projects/quicksilver/public_pdfs/ripq.pdf
- **2013 Cornell Workshop Presentation** – Svilen Kanev, et. al. (Harvard, collaboration with Google) – “Profiling a warehouse-scale computer“
Proceedings of the 42nd Intl. Symposium on Computer Architecture (ISCA), Portland, OR, June 2015 <http://skanev.org/papers/isca15wsc.pdf>
- **2013 Stanford Workshop Best Poster Award** - Christina Delimitrou and Christos Kozyrakis, "Quality-of-Service-Aware Scheduling in Heterogeneous Datacenters with Paragon," IEEE Micro, Special Issue on Top Picks from Architecture Conferences, vol. 34, no. 3, May 2014.
<http://csl.stanford.edu/~christos/publications/2014.paragon.ieeemicro.pdf>
- **2013 Stanford and 2014 CMU Workshops** - Vivek Seshadri, Gennady Pekhimenko, et. al. "Page Overlays: An Enhanced Virtual Memory Framework to Enable Fine-grained Memory Management" Proceedings of the 42nd Intl. Symposium on Computer Architecture (ISCA), Portland, OR, June 2015
<http://www.cs.cmu.edu/~gpekhime/Papers/PageOverlays-isca15.pdf>
- **2015 MIT Workshop Best Poster Award** - Nathan Beckmann, Po-An Tsai, Daniel Sanchez – “Scaling Distributed Cache Hierarchies through Computation and Data Co-Scheduling” - CDCS was nominated for best paper award at HPCA as well.
<http://people.csail.mit.edu/sanchez/papers/2015.cdcs.hpca.pdf>
- **2015 Berkeley Workshop Presentation and Poster** - David Lo, Liqun Cheng, Rama Govindaraju, Parthasarathy Ranganathan, Christos Kozyrakis, "Heracles: Improving Resource Efficiency at Scale," Proceedings of the 42nd Intl. Symposium on Computer Architecture (ISCA), Portland, OR, June 2015.
<http://csl.stanford.edu/~christos/publications/2015.heracles.isca.pdf>
- **2015 Berkeley Workshop Best Poster Award** – Andrew Waterman, et. al., Many updates by the RISC-V team were presented on June 29-30 at the 2nd RISC-V Workshop in Berkeley - <http://riscv.org/workshop-jun2015.html>

Other Recent Cloud-related Publications

- **“Cache Serializability: Reducing Inconsistency in Edge Transactions”**, Ittay Eyal, Ken Birman, Robbert van Renesse, Cornell, Intl. Conference on Distributed Computing Systems (ICDCS), IEEE 35th International Conference, June_29,2015.
http://www.cs.cornell.edu/projects/quicksilver/public_pdfs/managed%20transactional.pdf

- **“PriorityMeister: Tail Latency QoS for Shared Networked Storage”**, Timothy Zhu, Alexey Tumanov, Michael A. Kozuch, Mor Harchol-Balter, and Gregory R. Ganger. Proceedings of ACM Symposium on Cloud Computing (SOCC'14), November 2014. <http://www.pdl.cmu.edu/PDL-FTP/CloudComputing/pmeister-SoCC14.pdf>

Fellowships

- Sophia Shao, Harvard (Prof David Brooks) received an IBM Fellowship for the 2015-16 academic year.

Awards for Profs

- Prof. David Brooks, Harvard, 2015 ISCA Most Influential Paper Award (was presented 15 years ago at the 27th ISCA). <https://www.futurearchs.org/news/martonosi-and-brooks-receive-isca-influential-paper-award>
- Prof. Christos Kozyrakis, Stanford – ACM 2015 Maurice Wilkes Award. (Previous MW winners include Prof. David Brooks and Dr. Shubu Mukherjee, Cavium). <http://engineering.stanford.edu/news/2015-maurice-wilkes-award-presented-christos-kozyrakis>
- Prof. Daniel Sanchez, MIT – 2015 NSF Young Career Award <https://www.eecs.mit.edu/news-events/announcements/daniel-sanchez-recipient-nsf-2015-faculty-early-career-development-award>
- Prof. Matei Zaharia (presented at our MIT Workshop) won the 2014 ACM Doctoral Dissertation Award for his thesis at Berkeley “An Architecture for Fast and General Data Processing on Large Clusters” <http://www.eecs.berkeley.edu/Pubs/TechRpts/2014/EECS-2014-12.pdf>

Sabbaticals and Transitions

- Prof. Christos Kozyrakis will be joining our friends at EPFL this September on sabbatical.
- Christina Delimitrou, Stanford will join our friends at Cornell as Assistant Professor in ECE in Fall 2016 (she will teach at Stanford this upcoming school year). Congrats to Christina, and to Cornell!

Milestones: Moore’s Law – Dead at the Age of 50

- Prof. Dave Patterson’s recent comments on the Golden Anniversary of the Berkeley alum’s famous observation - <https://aspire.eecs.berkeley.edu/2015/05/moores-law-b-1965-d-2015/>