## List of publications

Snehasish Kumar October 23, 2017

- Naveen Vedula, Arrvindh Shriraman, Snehasish Kumar, and Nick Sumner. NACHOS: Software-Driven Hardware-Assisted Memory Disambiguation for Accelerators. In 24th ACM International Conference on High Performance Computer Architecture, HPCA '18, feb 2018.
  Acceptance Rate ≈ 20%.
- Snehasish Kumar, Nick Sumner, Vijayalakshmi Srinivasan, Steve Margerm, and Arrvindh Shriraman. Needle: Leveraging program analysis to extract accelerators from whole programs. In 23rd ACM International Conference on High Performance Computer Architecture, HPCA '17, feb 2017.

Acceptance Rate  $\approx 22\%$ .

3. Amirali Sharifian, Snehasish Kumar, Apala Guha, and Arrvindh Shriraman. ChainSaw: Creating Von-Neumann Accelerators with Fused Instruction Chains. In 49th Annual IEEE/ACM International Symposium on Microarchitecture, MICRO '16, Washington, DC, USA, oct 2016. IEEE Computer Society.

Acceptance Rate  $\approx 22\%$ .

- 4. Snehasish Kumar, Nick Sumner, and Arrvindh Shriraman. SPEC-AX: Extracting Accelerator Benchmarks from Microprocessor Benchmarks. In 2016 IEEE International Symposium on Workload Characterization, IISWC '16, pages 1–11, September 2016. Acceptance Rate ≈ 30%.
- Snehasish Kumar, Vijayalakshmi Srinivasan, Amirali Sharifian, Nick Sumner, and Arrvindh Shriraman. Peruse and Profit: Estimating the Accelerability of Loops. In 30th ACM International Conference on Supercomputing, ICS '16, pages 21:1–21:13, New York, NY, USA, 2016. ACM.

Acceptance Rate  $\approx 24\%$ .

- 6. Snehasish Kumar, Arrvindh Shriraman, and Naveen Vedula. Fusion: Design Tradeoffs in Coherent Cache Hierarchies for Accelerators. In 42nd Annual International Symposium on Computer Architecture, ISCA '15, pages 733–745, New York, NY, USA, 2015. ACM. Acceptance Rate ≈ 19%.
- 7. Snehasish Kumar, Naveen Vedula, Arrvindh Shriraman, and Vijayalakshmi Srinivasan. DASX: Hardware Accelerator for Software Data Structures. In 29th ACM International Conference on Supercomputing, ICS '15, pages 361–372, New York, NY, USA, 2015. ACM. Acceptance Rate  $\approx 25\%$ .
- 8. Hongzhou Zhao, Arrvindh Shriraman, Snehasish Kumar, and Sandhya Dwarkadas. Protozoa: Adaptive Granularity Cache Coherence. In 40th Annual International Symposium on Computer Architecture, ISCA '13, New York, NY, USA, jun 2013. ACM. Acceptance Rate ≈ 19%.

9. Snehasish Kumar, Hongzhou Zhao, Arrvindh Shriraman, E. Matthews, S. Dwarkadas, and L. Shannon. Amoeba-Cache: Adaptive Blocks for Eliminating Waste in the Memory Hierarchy. In 45th Annual IEEE/ACM International Symposium on Microarchitecture, MICRO '12, Washington, DC, USA, dec 2012. IEEE Computer Society. Acceptance Rate  $\approx 18\%$ .