

Welcome to the Birds-of-a-Feather Session

Democratizing AI Accelerators for HPC Applications: Challenges, Success, and Support

SC24

Wednesday, 20 November 2024

Murali Emani, Sid Raskar (ANL) Juan J. Duirlo, Jophin John (LRZ),
Brian Van Essen, Tal Ben-Nun (LLNL), Hatem Ltaief (KAUST)

Overview

- Recent surge in novel AI accelerator hardware (e.g. from Cerebras, Groq, SambaNova, Graphcore, and Tenstorrent)
 - ☐ Promising early successes and increased interest in running HPC applications and driven algorithmic research on these architectures.
- Software stacks and tooling support vary significantly
- Explore trends in AI accelerators for HPC, ideal programming models, software stack support, code portability, training resources, and common challenges.
- Build community of users interested or experienced in using AI accelerators for HPC applications.

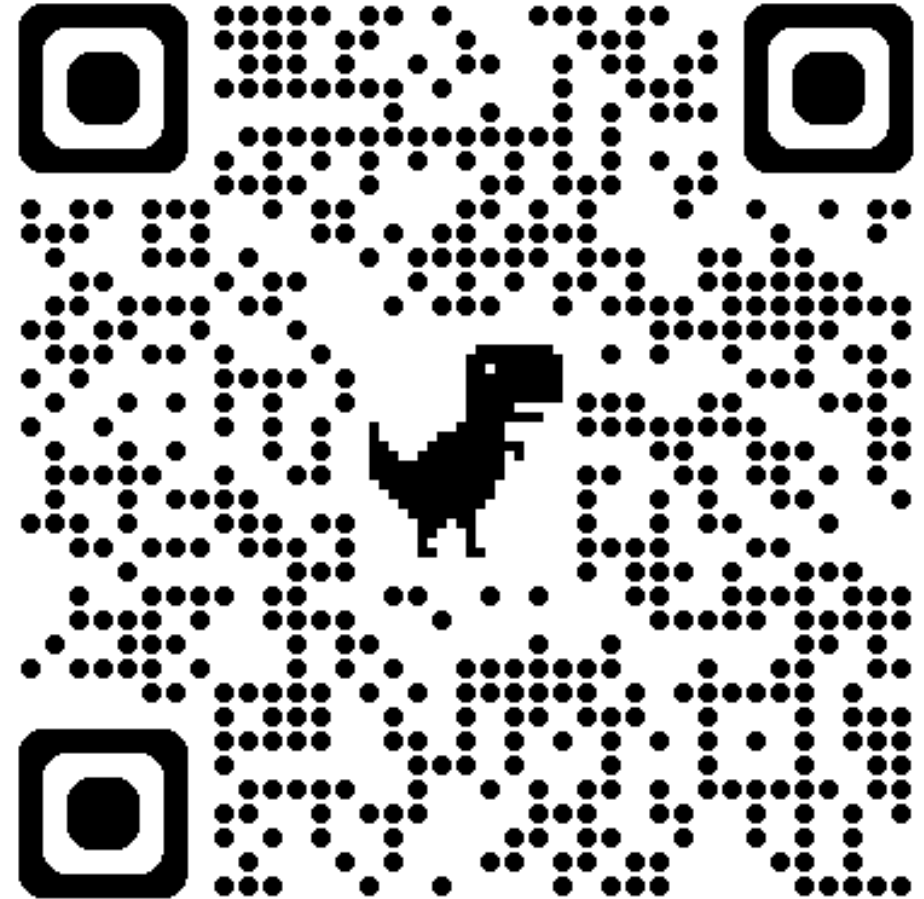
Agenda

<https://argonne-lcf.github.io/Accelerators4HPC/>

- Flash Talks:

- ❑ Leighton Wilson (Cerebras)
- ❑ Vijay Tatkar (SambaNova)
- ❑ Sanjif Shanmughavelu (Groq)
- ❑ Felix LeClaire (Tenstorrent)
- ❑ Brian Van Essen (LLNL)
- ❑ Sid Raskar (ANL)
- ❑ Nick Brown (EPCC)
- ❑ Hatem Ltaief (KAUST)

- Panel Discussion



Polls, Live Q&A

<https://sc24.conference-program.com/presentation/?id=bof133&ses s=sess628>

Thank You

- <https://argonne-lcf.github.io/Accelerators4HPC/>

[Provide Feedback](#)