

QCE2024(4)

4 日目 .

午前のキーノートは , Princeton 大の Margaret Martonosi .

コンピュータアーキテクチャ的に量子コンピュータを捉えるという話 .

午後のキーノートは , Xanadu の Josh Izaac . 量子コンピュータをささえる SDK の話 .

一言メモ

- Distributed Quantum Computing via Integrating Quantum and Classical Computing - https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tgYsFS0AAAAJ&sortby=pubdate&citation_for_view=tgYsFS0AAAAJ:ji7lAbPyDbYC
- Quantum-centric supercomputing for materials science: A perspective on challenges and future directions https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tgYsFS0AAAAJ&sortby=pubdate&citation_for_view=tgYsFS0AAAAJ:OgltA8FjbJAC
- Heterarch: Heterogeneous microarchitectures for superconducting quantum systems - https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tgYsFS0AAAAJ&sortby=pubdate&citation_for_view=tgYsFS0AAAAJ:wSy_KLzO7YEC
- Microarchitectures for heterogeneous superconducting quantum computers - https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tgYsFS0AAAAJ&sortby=pubdate&citation_for_view=tgYsFS0AAAAJ:37UQlXuwjP4C
- Cutting quantum circuits to run on quantum and classical platforms - https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tgYsFS0AAAAJ&cstart=20&pagesize=80&sortby=pubdate&citation_for_view=tgYsFS0AAAAJ:2ywjKiB_4kC
- Toward systematic architectural design of near-term trapped ion quantum computers - https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tgYsFS0AAAAJ&cstart=20&pagesize=80&sortby=pubdate&citation_for_view=tgYsFS0AAAAJ:ghEM2AJqZyQC
- Optimized quantum program execution ordering to mitigate errors in simulations of quantum systems - https://scholar.google.com/citations?view_op=view_citation&hl=en&user=tgYsFS0AAAAJ&cstart=20&pagesize=80&sortby=pubdate&citation_for_view=tgYsFS0AAAAJ:0aBXIfxlw9sC

あとでよむ

- The UNIX TimeSharing System - <https://people.eecs.berkeley.edu/~brewer/cs262/unix.pdf>