

Resume

Basic information

Name	Fateme Shokouhinia
Email address	fateme_shokouhinia@sfu.ca
Address	Burnaby, British Columbia, Canada
Website	fshok.github.io

Research Interests

Computer Architecture
Memory Systems
Processing In Memory
Reliability and Performance Enhancement in PIM

Education

September 2021 - present	Ph.D. in Computing Science Simon Fraser University, BC, Canada Supervisor: Professor Alaa Alameldeen
September 2019 - July 2021	M.Sc. Degree in Computer Systems Architecture Amirkabir University of Technology, Tehran, Iran M.Sc. Research Thesis Title: Reliability improvement in DWM-based caches Supervisors: Dr. Hamed Farbeh, Dr. Saadat Pour Mozafari Intelligent Computing and Communication Infrastructure (ICCI) Lab
September 2014 - February 2019	B.Sc. Degree in Computer Engineering Sharif University of Technology, Tehran, Iran B.Sc. Research Thesis Title: Investigating the reliability improvement methods in mixed-critical systems Supervisor: Dr. Shaahin Hessabi

Qualifications

Programming Languages: C, C++, Python
Hardware Description Languages: VHDL, Verilog
Familiar with Simulation tools: Gem5, Ramulator-PIM, ZSim, DAMOV
Operating Systems: Linux, Windows

Publications

Meisam Abdollahi, Mohammad Baharloo, Fateme Shokouhinia, and Masoumeh Ebrahimi, 2021, "RAP-NoC: Reliability Assessment of Photonic Network-on-Chips, A simulator". In Proceedings of the Eight Annual ACM International Conference on Nanoscale Computing and Communication (NANOCOM '21). Association for Computing Machinery, New York, NY, USA, Article 16, 1–7. DOI:<https://doi.org/10.1145/3477206.3477455>

Fateme Shokouhinia, Alaa Alameldeen, 2024, "PIM-LVP: Enhancing Performance in Reliable Processing-In-Memory Systems Using Load Value Prediction". Submitted to ASPLOS 2024 (ACM International Conference on Architectural Support for Programming Languages and Operating Systems)

Work experience

September 2021 - present

- Research Assistant**
Simon Fraser University, CS Department
Supervisor: Professor Alaa Alameldeen
- Teaching Assistant**
Simon Fraser University, CS Department
CMPT 295 - Introduction to Computer Systems
- Teaching Assistant**
Simon Fraser University, CS Department
CMPT 305 - Computer Simulation and Modelling
- Teaching Assistant**
Simon Fraser University, ENSC Department
ENSC 450 - VLSI Systems Design

Language Skills

- English
- Persian

References

Available upon request