Hamid Hadian



Google Scholar

Education

Virginia Tech University Virginia, USA

Ph.D. student in Computer Engineering (ECE- Department)

GPA (4.0/4.0)

Iran University of Science and Technology (IUST) Tehran, Iran

M.Sc. in Computer Engineering

GPA (4.0/4.0)

Azad University Central Tehran Branch Tehran, Iran

B.Sc. in Computer Engineering

GPA (4.0/4.0)

Spring 2000 – Fall 2005

Publications

Hadian, H., Farrokh, M., Sharifi, M., Jafari, A., **An elastic and traffic-aware scheduler for distributed data stream processing in heterogeneous clusters,** *published in the journal of SuperComputing*

Farrokh, M., Hadian, H., M., Sharifi, M., Jafari, A., SP-Ant: An Ant Colony Optimization Based Operator Scheduler for High Performance Distributed Stream Processing on Heterogeneous Clusters,

published in Journal of Expert Systems with Applications

Hadian, H., Sharifi, M., GT-Scheduler: A Two-level Scheduler for Distributed Data Stream Processing Systems in a Heterogeneous Cluster, Accepted in journal of Cluster Computing

R. Madhava Krishnan ,Naga Sanjana Bikonda, Shashwat Jain ,Wook-Hee Kim,Hamid Hadian, Vishwanath Maram, Changwoo Min **RETINA**: **Cross-layered Key-Value Store for Computational Storage, Accepted in** conference MASCOTS2023

Jinshu Liu, Hamid Hadian, Huaicheng Li Changwoo Min ., **Workload characteristic on the CXL memory**, *Submitted to SOSP '24*

Validi, A., Kashansky, V., Khiari, J., Hadian, H., Prodan, R., Li, J., Wang, F., Olaverri-Monreal, C., Hybrid On/Off Blockchain Approach for Vehicle Data Management, Processing and Visualization Exemplified by the ADAPT Platform, accepted in the ITSC 2022 Conference

Afzal, S., Tashtarian, F., Hadian, H., Erfanian, A., **OTEC: An Optimized Transcoding Task Scheduler for Cloud Environment**, accepted in the ViSNext 2022 workshop

Honors

- Best student 2018-2019 academic Year, master's Degree program, school of Computer Engineering
- 1st graduate student of the education course among students 2021

Current Activity

August 2022 - present(Virginia Tech University- ECE Departmnet)

- Researcher in COSMOSS (Computer Systems, Memory, OS) Lab at Virginia Tech
- Supervisors: <u>Dr. Huaicheng Li</u> and <u>Dr. Changwoo Min</u>
- Project Title: Exploring Acceleration Opportunities for CXL Memory to Reduce Memory Management Tax in the Operating System
- OS-level memory tiering for CXL memory
- Project Funding: Samsung Semiconductor USA, Memory Solutions Lab

Experiences

Sep 2021 - August 2022 (Austria - ITEC group - Klagenfurt University)

• Researcher and project assistant of a number of European projects (Horizon Europe research), like (ADAPT, APOLLO, and Data Cloud)

Sep 2018 - Nov 2021 - (IUST University) - Distributed Systems Laboratory (DSLab)

- Teacher assistant of **Distributed Systems** course (Fall 2021)
- Teacher assistant of **Cluster Computing** course (Winter 2020)
- Teacher assistant of **Distributed Systems** course (Fall 2020)
- Teacher assistant of **Operating Systems** course (Fall 2019)
- Supervisor of a number of graduate students in distributed systems laboratory
- Research on Linux, real-time operating systems architecture and embedded systems and IoT devices

Sep 2014 - Sep 2018 - Misagh Rayaneh Parsian Co. Software developer

- ClimaWare system based on the embedded systems
- Android application gadget weather and rainfall forecasting (ClimaWare)
- Web-based ISO standard quality management software
- A CRM system for book shopping stores

Review Activities

- Journal of IEEE Transactions on Parallel and Distributed Systems
- Journal of SuperComputing
- PDP 2022
- UbisSec 2021
- SuperComputing 2022
- NSDI 2024

Computer Skills

Programming Languages.....

- ❖ C/C++
- JAVA
- Python
- Assembly

* Frameworks and Tools.....

- ❖ Apache Storm
- ❖ Apache Flink

& Software and Technologies.....

- Kafka
- ❖ RabbitMO and ZeroMO
- MPICH (Message Passing Interface software)