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Research Interests: Distributed Systems, Mobile Edge Computing, Deep Reinforcement Learning, Federated Learning, Software Defined Networking, Performance Evaluation

EDUCATION

MSc. Computer Software Engineering

Sharif University of Technology (SUT)

Graduated Sep 2022, 17.36/20 GPA (23 units)

Thesis Title: A Novel Resource Allocation Algorithm in Edge Computing with Deep Reinforcement Learning 📄

Supervisor: Prof. Ali Movaghar 📄

BSc. Industrial Engineering

Khajeh Nasir Toosi University of Technology (KNTU)

Graduated Sep 2019

PUBLICATION

I. Rahmati, H. Shah-Mansouri, A. Movaghar, “QOCO: A QoE-Oriented Computation Offloading Algorithm based on Deep Reinforcement Learning for Mobile Edge Computing”, submitted to IEEE Internet of Things Journal 2023. 📄 📄

ACADEMIC EXPERIENCE

Research Assistant

- **Research Assistant at Performance and Dependability Laboratory (PDL)** 📄
Supervisor: Prof. Ali Movaghar SUT, 2020-present
Research Theme: Designed and implemented an algorithm leveraging deep reinforcement learning to optimize computation offloading decisions within mobile edge computing, with a primary focus on enhancing the Quality of Experience (QoE) for end-users of mobile applications.

Teaching Assistant

- **Performance Evaluation of Computer Systems (Head TA)** SUT, 2020-present
Prof. Ali Movaghar and Dr. Mahdi Dolati 📄
- **Software Defined Networking (Head TA)** SUT, 2022
Prof. Ali Movaghar and Dr. Mohammad Hosseini 📄
- **Verification of Reactive Systems** SUT, 2021
Prof. Ali Movaghar
- **Theory of Machines and Languages** SUT, 2021
Prof. Ali Movaghar

HONORS

- ❖ Ranked Top 25% in the Department of Computer Engineering among M.Sc. Students, SUT, Class 2019 Jul 2022
- ❖ Ranked 55th among 30,000 Participants in the Nationwide University Entrance Exam of Computer Engineering for M.Sc. in the Field of Software Engineering Aug 2019
- ❖ Ranked Top 1% among 180,000 Participants in the Nationwide University Entrance Exam for B.Sc. in the Field of Mathematics and Physics Jul 2014
- ❖ Achieving the 1st position in the RoboCup Competition (IranOpen) Mar 2012

ACADEMIC PROJECTS

- **QoE Maximization in Mobile Edge Computing** SUT, 2021
Optimizing Decision-Making for Computation Offloading in Mobile Edge Computing using Deep Reinforcement Learning (Dueling Deep Q-Networks) [🔗](#)
Supervisor: Prof. Ali Movaghar and Dr. Hamed Shah-Mansouri [↗](#)
- **Mobile Edge Computing Environment** SUT, 2021
Modeling and Simulation of Mobile Edge Computing under Resource Constraints for Delay and Energy Optimization [🔗](#)
Supervisor: Prof. Ali Movaghar
- **Time Series Analysis** SUT, 2021
Design a Model for forecasting Edge Server Workload using Recurrent Neural Networks such as Long Short Term Memory [🔗](#)
Supervisor: Prof. Ali Movaghar
- **Computer Performance Evaluation** SUT, 2020
Simulation and Performance Analysis of M/M/1/K Queue Model with Varied Service Orders (FCFS, Processor Sharing, Discriminatory Processor Sharing) [🔗](#)
Supervisor: Prof. Ali Movaghar
- **Distributed Systems** SUT, 2019
A Survey on ‘Verification of Paxos and Raft Protocols in Distributed Consensus’
Supervisor: Dr. Mohammad Izadi [↗](#)
- **Industrial Facilities Planning** KNTU, 2018
Operational Sequence of Activities (Material Flow) and Establishment of Industrial Units in the Process of Gears Manufacturing in an Automaker Company
Supervisor: Dr. Donya Rahmani [↗](#)
- **Project Management and Control** KNTU, 2017
Scheduling, Time management and Resource Allocation in a Construction Project
Supervisor: Dr. Amir Abbas Najafi [↗](#)

SELECTED COURSES

Theory of Distributed Systems
Verification of Reactive Systems
Advanced Computer Networks
Mobile Communications

Computer Performance Evaluation
Wireless Networking
Advanced Network Security
Computer Network Management

SKILLS

REFERENCES

Prof. Ali Movaghar 

movaghar@sharif.edu


Professor of Computer Science and Engineering Department, SUT

Visiting Professor of Computer Science Department, University of Michigan

Dr. Hamed Shah-Mansouri 

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Assistant Professor of Electrical Engineering Department, SUT

Prof. Ali Mohammad Afshin Hemmatyar 


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Professor of Computer Science and Engineering Department, SUT

Dr. Mahdi Dolati 

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Postdoctoral of Institute For Research In Fundamental Sciences Researcher (IPM)

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Further information and Proofs are available upon Request.