Komeil Moghaddasi

Miandoab, Iran

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Education

Master of Science in Information Technology (Major in E-Commerce) (Sep. 2021 - Sep. 2023)

Islamic Azad University (Urmia, Iran)

Thesis Title: An energy-aware approach for increasing performance and security of IoT task offloading on mobile edge computing. (Passed by A+ Mark)

Supervisor: Prof. Farhad Soleimanian Gharehchopogh

GPA: 17.23 out of 20.0

Bachelor of Science in Computer Engineering (Major in Software) (Feb. 2013 - Jan. 2019)

Islamic Azad University (Miandoab, Iran)

GPA: 13.55 out of 20.0

Research Interests

- Computer Networks
- Wireless Communications
- Parallel and Distributed Computing
- Machine Learning
- Reinforcement Learning
- Blockchain

Publications

- **Moghaddasi, K.,** Rajabi, S., Soleimanian Gharehchopogh, F., & Ghaffari, A. (2024). An Advanced Deep Reinforcement Learning Algorithm for Three-Layer D2D-Edge-Cloud Computing Architecture for Efficient Task Offloading in the Internet of Things. Sustainable Computing: Informatics and Systems. link: https://www.sciencedirect.com/science/article/abs/pii/S2210537924000374 (Elsevier - IF: 3.8 - Q1)
- Min, H., Rahmani, A., Ghaderkourehpaz, P., **Moghaddasi, K.,** & Hosseinzadeh, M. (2024). A Joint Optimization of Resource Allocation Management and Multi-Task Offloading in High-Mobility Vehicular Multi-Access Edge Computing Networks. Ad Hoc Networks. link: https://www.sciencedirect.com/science/article/abs/pii/S1570870524002671 (Elsevier - IF: 4.4 - Q1)
- **Moghaddasi, K.**, Rajabi, S., & Soleimanian Gharehchopogh, F. (2024). Multi-Objective Secure Task Offloading Strategy for Blockchain-Enabled IoV-MEC Systems: A Double Deep Q-Network Approach. IEEE Access. link: https://ieeexplore.ieee.org/abstract/document/10378647 (IEEE - IF: 3.4 - Q1)
- **Moghaddasi, K.**, Rajabi, S., & Soleimanian Gharehchopogh, F. (2024). An Enhanced Asynchronous Advantage Actor-Critic-based Algorithm for Performance Optimization in Mobile Edge Computing-enabled Internet of Vehicles Networks. Peer-to-Peer Networking and Applications. link: https://link.springer.com/article/10.1007/s12083-024-01633-x (Springer - IF: 3.3 - Q2)
- **Moghaddasi, K.**, Rajabi, S., Soleimanian Gharehchopogh, F., & Hosseinzadeh, M. (2023). An Energy-Efficient Data Offloading Strategy for 5G-enabled Vehicular Edge Computing Networks Using Double Deep Q-Network. Wireless Personal Communications. link: https://link.springer.com/article/10.1007/s11277-024-10862-5 (Springer - IF: 1.9 - Q2)
- **Moghaddasi, K.**, & Masdari, M. (2023). Blockchain-driven optimization of IoT in mobile edge computing environment with deep reinforcement learning and multi-criteria decision-making techniques. Cluster Computing Journal. link: https://link.springer.com/article/10.1007/s10586-023-04195-4 (Springer - IF: 3.6 - Q1)

Conferences

- **Moghaddasi, K.**, & Rajabi, S. (2023). Double Deep Q-Learning Networks for Energy-Efficient IoT Task Offloading in D2D MEC Environments. In Conference 2023 7th International Conference on Internet of Things and Applications (IoT). link: https://ieeexplore.ieee.org/abstract/document/10365356.
- **Moghaddasi, K.**, & Rajabi, S. (2023). Learning at the Edge: Mobile Edge Computing and Reinforcement Learning for Enhanced Web Application Performance. In Conference 2023 9th International Conference on Web Research (ICWR). link: https://ieeexplore.ieee.org/abstract/document/10138952.
- Rajabi, S. & **Moghaddasi, K.** (2023). IoT-Driven Water Quality Management System using Deep Q-Network. In 2023 14th International Conference on Information and Knowledge Technology (IKT). link: https://ieeexplore.ieee.org/abstract/document/10138952.

Academic Experiences

- **Research Assistant**, at Islamic Azad University, Urmia, Iran. (Oct. 2021 - Present)
- **Reviewer**, at peer-reviewed journals. (May. 2024 - Present).
- **Teaching Assistant**, in *"Machine Languages and System Planning, Machine Learning and Computer Networks"* courses for undergraduate students at the Islamic Azad University, Urmia, Iran. (Mar. 2023 - Jun. 2023)
- **Teaching Assistant**, in the *"Computer Simulation"* course for graduate students at the Islamic Azad University, Urmia, Iran. (Sep. 2022 - Feb. 2023)

Languages

- **Persian/Azerbaijani/Turkish** (Native)
- **English** (IELTS Overall Band Score 7)

Achievements & Awards

- Full mark achieved for M.Sc. Thesis, Islamic Azad University, Urmia, Iran. (2023)
- Among top-ranked graduate students in terms of GPA during the M.Sc. level at the Islamic Azad University, Urmia, Iran. (2022)
- 1st rank of province swimming champion. (2018)
- 2nd Place in Table Tennis at the Provincial Level. (2016)
- 2nd Place in Chess in the County. (2008)

Notable Courses

- "Thesis": (20.0 out of 20.0)
- "Computer Architecture": (20.0 out of 20.0)
- "Research Methodology": (20.0 out of 20.0)
- "Software Architecture": (20.0 out of 20.0)
- "Organizational Information Security Architecture": (18.0 out of 20.0)
- "Data Mining": (17.0 out of 20.0)
- "Computer Networks": (17.0 out of 20.0)
- "Intelligent Decision Support Systems": (16.0 out of 20.0)

Memberships

- "IEEE Member." (2022 - Present)
- "Member of the Computer Society at Urmia Azad University." (2022 - 2024)

Core Skills

- Attended Courses: Network+, CCNA, Python, Machine Learning, WordPress, HTML, CSS, JavaScript, ...
- Data Science & Machine Learning: Python, NumPy, Pandas, SciPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Docker, AWS, SQL.
- Simulation Environments: OpenAI Gym, OMNeT++.
- Web Development: HTML, CSS, JavaScript.
- Computer Applications: Microsoft Office Suite (Word, Excel, PowerPoint), Adobe Creative Suite (Photoshop, XD) and ... .

Soft Skills

- Analytical Thinking
- Attention to Detail
- Adaptability
- Effective Communication
- Team Collaboration
- Continuous Learning

Activities

- **Hobbies:**
  - Swimming | Photography | Reading | Cinema | Astrophilately | Youtube | Learning

References

- **Farhad Soleimanian Gharehchopogh** (Associate Professor) | Computer Engineering Department, Islamic Azad University, Urmia, Iran.
  Email: Farhad.soleimanian@iau.ac.ir

- **Ali Ghaffari** (Associate Professor) | Computer Engineering Department, Islamic Azad University, Tabriz, Iran.
  Email: A.ghaffari@iaut.ac.ir

- **Mehdi Hosseinzadeh** (Associate Professor) | School of Computer Science, Duy Tan University, Da Nang, Vietnam.
  Email: Mehdihosseinzadeh@duytan.edu.vn