Mahsa Sahebdel

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EDUCATION

MS/PhD in Computer Science

University of Massachussetts Amherst

Current GPA: 3.70/4.0

M.Sc. in Information Technology Engineering, Networked Systems

University of Tehran

GPA: 3.5/4.0

B.Sc. in Information Technology Engineering

Azarbaijan Shahid Madani University

GPA: 3.5/4.0

RESEARCH INTERESTS

Online decision making, Carbon-intelligent computing, Reinforcement learning

PUBLICATIONS

Near-Optimal Emission-Aware Online Ride Assignment Algorithm for Peak Demand Hours Ali Zeynali, Mahsa Sahebdel, Noman Bashir, Ramesh K. Sitaraman, Mohammad H. Hajiesmaili - (Under review)

LEAD: Towards Learning-Based Equity-Aware Decarbonization in Ridesharing Platforms

Mahsa Sahebdel, Ali Zeynali, Noman Bashir, Prashant Shenoy, Mohammad H. Hajiesmaili - (Under review)

A Safe Exploration Strategy for Model-free Task Adaptation in Safety-constrained Grid Environments Erfan Entezami, Mahsa Sahebdel, Dhawal Gupta - ICDS 2024 (Accepted)

A Holistic Approach for Equity-aware Carbon Reduction of Ridesharing Platforms

Mahsa Sahebdel, Ali Zeynali, Noman Bashir, Prashant Shenoy, Mohammad H. Hajiesmaili - ACM e-Energy 2024

(Published)

Data-driven Algorithms for Reducing the Carbon Footprint of Ride-sharing Ecosystems Mahsa Sahebdel, Ali Zeynali, Noman Bashir, Mohammad H. Hajiesmaili, Jimi Oke - ACM e-Energy 2023 (Published)

TeleCrowd: A Crowdsourcing Approach to Create Informal to Formal Text Corpora Vahid Masoumi, Mostafa Salehi, Hadi Veisi, Golnoush Haddadian, Vahid Ranjbar, Mahsa Sahebdel - arXiv 2020

SKILLS

Programming Languages: Python, Java, C++, C#, R Deep Learning: TensorFlow, PyTorch, Keras, Scikit-learn Web Programming: HTML, CSS, JavaScript, Django

Database Management: SQL, mySQL, Oracle, PostgresSQL Data Analysis: Data visualization, Gurobi, Numpy, Pandas

Projects

E2-RideKit: A comprehensive toolkit enhancing ridesharing datasets with emissions and equity information. [GitHub]

LingoLand: An Android application for English language learning, incorporating the 6D gamification design framework and the Bartle player model.

KalKal: A Telegram inline game that challenges knowledge of people.

SOLAR Lab (Sustainability, Optimization, Learning, and Algorithms Research)

Jan 2023 - Present

• Working on emission analysis, decarbonizing, and optimizing transportation systems.

COIN Lab (Computer and Information Network)

2016 - 2019

• Worked on Persuasive Gamification on Learning Platforms.

Emita (powered by Manarayka), Data Scientist and research Intern

 $\rm Jan~2020$ - $\rm Dec~2020$

- Generated air pollution reports and conducted statistical and numerical air pollution modeling.
- Data analysis and traffic modeling for real-time traffic management, bottleneck identification, and the reduction of congestion.

Bahar E-Commerce Services, Backend Developer Intern

Dec 2018 - Dec 2019

• Developed an extensive customer loyalty management system, leveraging the Odoo ERP platform.

MENTORING AND OTHER SERVICES

Reviewer for KDD 2025

Academic Services at University of Massachusetts, Amherst

Jan 2024

Mentored three undergraduate students in a 7-week research volunteer program.

Treasurer, IGSA at University of Massachusetts, Amherst

July 2023 - Present

Honors and Awards

Common Good Fellowship

Jan 2023

Associated with UMass Amherst

Top 10 ranked teams in ICT Programming Challenge 5 among 75 teams

Jul 2020

SharifICT

Full scholarship of the Networks and Systems summer school

Aug 2018

Tehran Institute for Advanced Studies (See Certificate)

Ranked 2nd among 33 teams in the second NovinTech BootCamp Event

Jun 2018

NovinTech Accelerator

Ranked 101st among 2000 students

Sept 2016

In National Graduate Entrance Examination in Information Technology Engineering

Selected Coursework

Graduate Courses

Neural Networks, Advanced Methods in HCI, Probabilistic Models, Machine Learning and Pattern Recognition, Advanced Algorithms, Complex Networks, Simulation and Modeling, Reinforcement Learning, Database Design and Implementation

Undergraduate Courses

Artificial Intelligence, Algorithms Design, Data Structure, Applied Probabilities and Statistics