

Matin Moezzi

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Education

2022 – Present Master of Applied Science, Mechanical and Industrial Engineering Department, University of Toronto

2016 – 2021 Bachelor of Computer Science—Minor in Mathematics, Department of Mathematics & Computer Science, Amirkabir University of Technology (Tehran Polytechnic)

Research Experience

2021 **Data-Efficient Hierarchical Reinforcement Learning using Importance Sampling** [\[PDF\]](#)[\[Code\]](#)
Developed an approach to improve data-efficiency of the hierarchical deep Q network algorithm (h-DQN) using the importance sampling method.

2021 **An Uncertainty-Aware Pseudo-Label Selection Framework using Regularized Conformal Prediction** [\[PDF\]](#)[\[Code\]](#)
Employing uncertainty sets yielded by the conformal regularization algorithm in the uncertainty-aware pseudo-label selection framework to fix the poor calibration neural networks, reducing noisy training data.

2020 **(I) Applying Deep Reinforcement Learning to Solve Control Problems Described by a System of Delay Differential Equations (DDEs)**
Computational Intelligence & High Dimensional Systems Lab.
Faculty of Electrical Engineering, Amirkabir University of Technology
Under Supervision of [Prof. Mohammad B. Menhaj](#)
(II) Solving the System of ODEs of the Control Spread of Ebola Virus Epidemic using Deep Neural Networks [\[Code\]](#)
Faculty of Mathematics and Computer Science
Under Supervision of [Prof. Mostafa Abbaszadeh](#)
(III) Adding the L-BFGS Support for Training DNNs to the *NeuroDiffEq* package [\[Code\]](#)

Teaching Experience

Neural Networks (Graduate Level), Teaching Assistant, Faculty of Electrical Engineering, Amirkabir University of Technology, Spring 2021 — Under Supervision of [Prof. M. B. Menhaj](#)

Numerical Linear Algebra, Teaching Assistant, Faculty of Mathematics & Computer Science, Amirkabir University of Technology, Spring 2020 — Under Supervision of [Prof. Mostafa Abbaszadeh](#)

Operating Systems, Teaching Assistant, Faculty of Computer Science, Amirkabir University of Technology, Fall 2019, Spring 2020, Spring 2021 — Under Supervision of [Prof. H. Nourikhah](#)

Computer Networks, Teaching Assistant, Faculty of Computer Engineering, Amirkabir University of Technology, Spring 2020 — Under Supervision of [Prof. M. Sabaei](#)

Work Experience

2018 – 2019 **Software Developer**, iTours Online Travel Agency Co., Tehran, Iran

Designed and Implemented enterprise SOAP & Restful Web Services
Developed Asp.Net Core Web Apps & Web APIs

2017 – 2018 **Web Developer**, Parsian Insurance Co., Tehran, Iran

Effectively refactored previous projects based on Design Patterns & SOLID principles
Developed Asp.Net web applications for the insurance management system
Developed front-end side of web applications with HTML, CSS & Javascript

Online Degrees & Courses

Artificial Intelligence Nanodegree Peter Norvig & Sebastian Thrun, Udacity	[See the Certificate]
Reinforcement Learning Specialization , University of Alberta, Coursera	[See the Certificate]
Practical Reinforcement Learning (with honors) , HSE, Coursera	[See the Certificate]
Deep Learning Specialization , Andrew Ng, deeplearning.ai, Coursera	[See the Certificate]
Cutting-Edge AI: Deep Reinforcement Learning in Python , Udemy	[See the Certificate]
Natural Language Processing Specialization , deeplearning.ai, Coursera	[See the Certificate]
TensorFlow Developer Specialization , deeplearning.ai, Coursera	[See the Certificate]
Machine Learning , Andrew Ng, Stanford University, Coursera	[See the Certificate]
Network Function Virtualization , Georgia Institute of Technology, Coursera	[See the Certificate]
Software Defined Networking , The University of Chicago, Coursera	[See the Certificate]
Generative Adversarial Networks Workshop , Amirkabir Artificial Intelligence Summer Summit 2020	[See the Certificate]

Skills

Software Programming: Microservices, SOLID Principles, SOAP & Restful Web Services
Computer Network: TCP/IP, SDN & NFV, Mininet Emulator
Programming Languages: C/C++, Python, MATLAB, R, Java, C#, SQL, Javascript
Libraries: Pandas, Scikit-learn, PyTorch, TensorFlow, Keras, OpenAI Gym
Tools & Frameworks: .Net/ Asp.Net, Wireshark, Boson (Computer Network Simulator), \LaTeX , Git
Others: GNU/Linux, Bash scripting, MySQL

Activities

Editorial Board Member of Student Scientific Journal, Mathematics & Computer Science Faculty
Amirkabir University of Technology, 2020 - Present

References

Prof. Chi-Guhn Lee, Full Professor, Department of Mechanical and Industrial Engineering, University of Toronto
cglee@mie.utoronto.ca
Prof. Mohammad B. Menhaj, Full Professor, Department of Electrical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Iran, menhaj@aut.ac.ir
Prof. Mostafa Abbaszadeh, Assistant Professor, Department of Mathematics & Computer Science, Amirkabir University of Technology (Tehran Polytechnic), Iran, m.abbaszadeh@aut.ac.ir

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