

Amirreza Dolatpour Fathkouhi

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EDUCATION

Bachelor of Computer Engineering Shiraz University of Technology, Shiraz, Iran,	GPA: 17.72 (out of 20)	2018 - Present
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RESEARCH INTERESTS

Interested in Deep Learning, Machine Learning, Automated machine learning, Computer vision, Swarm Intelligence and explainable AI

RESEARCH EXPERIENCE

Researcher: <i>Learning Systems and Cybernetics Lab, University of Windsor, Ontario, Canada</i> <ul style="list-style-type: none">Working on explainable and interpretable AI	April 2022 - Present
Researcher: <i>Data Modeling, Processing, and Analysis Research Group, Shiraz University of Technology</i> <ul style="list-style-type: none">Working on preprocessing, analysis and modeling the medical data	Feb 2022 - April 2022
Researcher: <i>Department of Electrical and Electronic Engineering, Shiraz University of Technology</i> <ul style="list-style-type: none">Working on the modified versions of Swarm Optimizers and improve their performance in the hard problems and also its Application as a Hyperparameter tuning in Deep neural network models.Contribute to multi-disciplinary project aimed at Programming, Simulation, giving ideas and writing the Results.Collaborate and coordinate with supervisor, scientific staff and the other member of a team.	June 2020 - April 2022

TEACHING AND MENTORING EXPERIENCE

Teaching Assistant, Advanced Programming: <i>Department of Computer Engineering, Shiraz University of Technology</i> <ul style="list-style-type: none">Supervised 30+ Students and grade their exercises.	Jan 2020 - Sep 2020
Teaching Assistant, Artificial Intelligence and Expert Systems <i>Department of Computer Engineering, Shiraz University of Technology</i> <ul style="list-style-type: none">Supervised 30+ Students on virtual classes and solve their problems.	Sep 2020 - Feb 2021
Teaching Assistant, Computational Intelligence: <i>Department of Computer Engineering, Shiraz University of Technology</i> <ul style="list-style-type: none">Supervised 40+ Students and solve their problemsRecord movie for their exercise Solutions.	Mar 2021 - August 2021
Teaching Assistant, Algorithm Design: <i>Department of Computer Engineering, Shiraz University of Technology</i> <ul style="list-style-type: none">Supervised 30+ Students on virtual classes and solve their problems.design the programming exercises.	Mar 2021 - August 2021

PUBLICATIONS

Automated Deep CNN Design using Modified Bat Algorithm for Vehicle Classification [Under-Review] <ul style="list-style-type: none">Ehsan Kiakojouri*, Amirreza Dolatpour Fathkouhi*, Abdollah Kavousi-Fard, Mazaher KarimiIEEE Transactions on Pattern Analysis and Machine Intelligence*these authors contributed equally to this work	April 2022
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HONORS AND AWARDS

Ranked 4th among all the computer engineering students	Present
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RESEARCH IN PROGRESS

Working on LIME and SHAP as the explainable algorithms to develop a new version of them

TECHNICAL SKILLS

Programming languages and mathematical packages:

- *Matlab, C, C++, C#, Java (SE), Python, Tensorflow, Numpy, Pandas.*

Computer aided design/engineering:

- *Intellij IDEA, Pycharm, Visual Studio, weka*

Other:

- *Windows OS*

LANGUAGES

Persian: Native

English: Fluent

REFERENCES

Abdollah Kavousi-Fard, Assistant Professor

Department of Electrical and Electronic Engineering

Shiraz University of Technology

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Reza Akbari, Associate Professor

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Omid Bushehrian, Associate Professor

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