Amirreza Dolatpour Fathkouhi

(+98) 9377683975 • a.dolatpour2000@gmail.com

EDUCATION

Bachelor of Computer Engineering   **GPA**: 17.77 (out of 20)   2018 - Present
Shiraz University of Technology, Shiraz, Iran,

RESEARCH INTERESTS

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

RESEARCH EXPERIENCE

Researcher: April 2022 - Present
Learning Systems and Cybernetics Lab, University of Windsor, Ontario, Canada
- Working on explainable and interpretable AI

Researcher: Feb 2022 - April 2022
Data Modeling, Processing, and Analysis Research Group, Shiraz University of Technology
- Working on preprocessing, analysis and modeling the medical data

Researcher: June 2020 - April 2022
Department of Electrical and Electronic Engineering, Shiraz University of Technology
- 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.

TEACHING AND MENTORING EXPERIENCE

Teaching Assistant, Advanced Programming: Jan 2020 - Sep 2020
Department of Computer Engineering, Shiraz University of Technology
- Supervised 30+ Students and grade their exercises.

Teaching Assistant, Artificial Intelligence and Expert Systems   Sep 2020 - Feb 2021
Department of Computer Engineering, Shiraz University of Technology
- Supervised 30+ Students on virtual classes and solve their problems.

Teaching Assistant, Computational Intelligence: Mar 2021 - August 2021
Department of Computer Engineering, Shiraz University of Technology
- Supervised 40+ Students and solve their problems
- Record movie for their exercise Solutions.

Teaching Assistant, Algorithm Design: Mar 2021 - August 2021
Department of Computer Engineering, Shiraz University of Technology
- Supervised 30+ Students on virtual classes and solve their problems.
- design the programming exercises.

PUBLICATIONS

Automated Deep CNN Design using Modified Bat Algorithm for Vehicle Classification *[Under-Review]*   April 2022
- Ehsan Kiakojouri*, Amirreza Dolatpour Fathkouhi*, Abdollah Kavousi-Fard, Mazaher Karimi
- *IEEE Transactions on Pattern Analysis and Machine Intelligence*
- *these authors contributed equally to this work*

HONORS AND AWARDS

Ranked 4th among all the computer engineering students   Present

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:

- *lntellij 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

kavousi@sutech.ac.ir

Reza Akbari, Associate Professor

Department of Computer Engineering

Shiraz University of Technology

akbari@sutech.ac.ir

Omid Bushehrian, Associate Professor

Department of Computer Engineering

Shiraz University of Technology

bushehrian@sutech.ac.ir