Mohammad Saleh Ebrahimi Shahabadi

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Education

Since 2017 — **Bachelor of Science in Computer Science**, *Shahid Bahonar University of Kerman, Kerman, Iran*.
CGPA: 3.37/4, Major GPA:3.84/4, *Ranked 3rd in Computer Science Department among 75+ entrants of 2017*.

2014-2017 — **Bachelor of Science in Mechanical Engineering**, *Shahid Bahonar University of Kerman, Kerman, Iran*, **Changed major to Computer Science**.
Admission requirement is being ranked in the 99th percentile in Nationwide University Entrance Exam (Concours).

Publications

2019 — **A Novel Hybridization of Self-adaptive Multi-verse Optimizer over K-Means for Data Clustering**, Hamed Tabrizchi, ***Mohammad Saleh Ebrahimi Shahabadi***, Marjan Kuchaki Rafsanjani.
Accepted at 8th Joint Congress on Fuzzy and Intelligent Systems - under the supervision of IEEE.

A combination of Clustering-based Under-sampling to overcome Imbalanced Class problem, ***Mohammad Saleh Ebrahimi Shahabadi***, Hamed Tabrizchi, Marjan Kuchaki Rafsanjani.
Under review at Pattern Recognition

Projects

2015-2017 — **Smart wristband for the elderly**.
Objective: Designing a wristband for the elderly to record vital signs and track location in case of an emergency.
Description: The first series of smart wristbands was designed by a group of active students of the Robotics and Mechatronics Association as a research project under my supervision, passed the design stage and entered the laboratory model construction stage.

Experience

Teaching Experience

Fall 2018 — **Advanced Programming Teaching Assistant**, *Shahid Bahonar University*.

Research Experience

Since 2018 — **Research Assistant**, *Department of Computer Science, Shahid Bahonar University*,
Description: I was working on Algorithmic level approaches for addressing the Imbalanced dataset problem; work resulted in one under-review paper at Pattern Recognition.
Also, I have worked on combining the evolutionary algorithms with K-Means to automate the process of finding the optimal number of clusters and choosing the best initial cluster centroids. Work resulted to an accepted paper in the 8th joint congress on Fuzzy and Intelligent systems. **Supervisor:** Dr Marjan Kuchaki Rafsanjani.

University Services

Since 2019 — **Data Mining and Machine Learning Group Member**, *Mahani Mathematical Research Center, Shahid Bahonar University*, Attended weekly discussions, gave advice to other members and held a lecture: Clustering-based feature selection (with A. Hassani - 2019).

2019 — **Member of the Technical Team, 3rd Saba Programming Contest**, *Shahid Bahonar University*.

2016-2018 — **Head of Mechanical Engineering Scientific Student Association**, *Department of Mechanical Engineering, Shahid Bahonar University*.
I was in charge of holding extra-curricular courses and student guidance. During my tenure, the association won the 9th university-wide HAREKAT award. (1st ranked association in the University)

2015-2017 — **Editor-in-chief of "Tik" Scientific Journal**, *Shahid Bahonar University*, Honorary student scientific journal at the 7th university-wide HAREKAT competition.

2015- 2016	**Robotics and Mechatronics Student Association Member**, *Shahid Bahonar university.* Worked one various projects and attended in national and international robotic and mechatronic competitions.

Honors and Awards

2020 **Undergraduate Research Excellence Award**, *Department of Mathematics and Computer Science*, Shahid Bahonar University, Awarded distinguished researcher among Computer Science students for research conducted in Machine Learning.

2018 **1ˢᵗ Rank Scientific Association**, Honored as the **President of Mechanical Engineering Student Scientific Association**, the university-wide distinguished association among (80+) scientific associations.

2017 **1ˢᵗ Rank Scientific Association**, *Presented by the **Minister of Science, Research and Technology of Iran***, Honored as a member of the National distinguished association among (9000+) scientific associations in Iran.

1ˢᵗ Rank Scientific Association, *Presented by the **Vice Minister of Science, Research and Technology of Iran***, Honored as a member of the National distinguished association among (9000+) scientific associations in Iran.

1ˢᵗ Rank Scientific Association in the Invention Competition, *Presented by the **Vice Minister of Science, Research and Technology of Iran***, Honored as a member of the National distinguished association among (9000+) scientific associations in Iran.

2016 **Member of the 1ˢᵗ Rank Scientific Association**, the university-wide distinguished association.

Member of the Honorary Student Scientific Journal Award, the university-wide Honorary association.

Member of the 1ˢᵗ Rank Scientific Association in Creativity, the university-wide distinguished association.

Member of the 1ˢᵗ Rank Scientific Association in Innovation, the university-wide distinguished association.

Member of the 1ˢᵗ Rank Scientific Association in Entrepreneurship, the university-wide distinguished association.

Technical Skills

Programming, Python, C/C++, MATLAB.
Scripting, LaTeX, HTML, CSS.
Machine Learning, PyTorch, TensorFlow, Keras, Scikit-Learn.
Data Management, Tableau, Pandas, SQL Server.
Operating Systems, Linux, Windows.

Research Interests

Computer Vision, Deep Neural Networks, Clustering, Transfer Learning, Visual Analytics, Human Activity Recognition, Object Detection, Object Recognition, Recommender Systems, Visual Data Mining, Instance Segmentation, Self-supervised Learning, Natural Language Processing, Human Body Pose Estimation, Text clustering, Emotion and Sentiment Analysis, Feature Selection

Certificates (click to view the certificate)

Neural Networks and Deep Learning | deeplearning.ai
Improving Deep Neural Networks | deeplearning.ai
Structuring Machine Learning Projects | deeplearning.ai
Convolutional Neural Networks | deeplearning.ai
Data Science Math Skills | Duke University
How to Write and Publish a Scientific Paper (Project-centered Course) | École Polytechnique
Intro. to TensorFlow for AI, ML, and Deep Learning | deeplearning.ai
Machine Learning with Python | IBM

Languages

English Professional working proficiency

Persian Native speaker

Test Score

Planning to take TOEFL IBT by 15$^{\text{th}}$ of October 2020

References

Marjan Kuchaki Rafsanjani
Associate professor at department of Computer Science, Shahid Bahonar University of Kerman.
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Arsham Borumand Saeid
Professor at the department of Pure Mathematics, Shahid Bahonar University of Kerman.
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Ali Mohammad Shafei
Associate professor at department of Computer Science, Shahid Bahonar University of Kerman.
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