Banafsheh Karimian

https://banafshehkarimian.github.io/

| Edu | cation | |
|------------------------|---|--|
| Oct. 2 | 020 - Present | University of Tehran |
| | | Machine Intelligence and RoboticsGPA: N/A |
| Sep. 2015 - July. 2019 | | IUST, Iran University of Science and Technology |
| | | B.Sc. in Computer Engineering GPA: 17.67/20.00 - 3.89/4.00 (Via 141 passed credits) |
| Sep. 2011 - June. 2015 | | Salam-Sabz High School |
| | | Pre-University and High School Diploma in Mathematics and Physics GPA: 18.86/20.00 – 4.00/4.00 |
| Rese | earch Interests | |
| : | Robotics Soft Robotics Rehabilitation Robotic bionics Surgical Robotics | Legged Robotics Evolutionary Robotics Computer Vision Machine Learning Medical Imaging |
| Hon | ors & Awards_ | |
| | 2020 | Ranked 39th |
| | | In the masters National Universities Entrance Exam In Computer Engineering- Artificial Intelligence |
| | 2015 - 2019 | Ranked among top 3 students |
| | | For eight out of eight semesters Among 37 students of computer engineering (Software) department |
| | 2015 - 2019 | Awarded as a top student (IUST) |
| | | For all considered academic years |

- For all considered academic years
- Selected based on GPA

2015

Ranked 934th

- In the National Universities Entrance Exam
- In Math and Physics exam

Publications___

P. Golshan, H. Rahmani, B. Karimian, F. Karimkhani, G. Weiss, "MEGA: Predicting the Best Classifier Combination Using Meta-Learning and a Genetic Algorithm" (Accepted to be published on Intelligent Data Analysis Journal)

| Research |
|----------|
| NESEALUI |

Using meta learning and genetic algorithm to predict the best ensemble of classifiers for a dataset

- IUST, Data Flow lab.
- Under supervision of Dr. Hossein Rahmani, collaborating with <u>Prof. Gerhard Weiss</u>
- Description

A method of mapping entity linking to word sense disambiguation

- IUST, DM lab.
- Under supervision of Dr. Minaie
- Description

Eye refractive error detection

- IUST, Data Flow lab.
- Under supervision of Dr. Hossein Rahmani
- Description

| Experiences | | | |
|------------------|--|--|--|
| Research Assista | ant | | |
| 2017 - 2020 | Research Assistant at data-flow laboratory | | |
| | Iran University of Science and TechnologyUnder the supervision of Dr. Hossein Rahmani | | |
| Teaching Assista | ant | | |

| 2019 | <u>Teaching Assistant of Computer Vision course</u> ■ Department of computer, IUST |
|------|--|
| 2019 | <u>Teaching Assistant of Algorithm Design and Analysis course</u> Department of computer, IUST |
| 2019 | Teaching Assistant of Theory of computation course Department of computer, IUST |
| 2017 | Teaching Assistant of Data Structures course Department of computer, IUST |
| 2017 | Teaching Assistant of fundamentals of programming course |

Department of computer, IUST

Selected Academic Projects_____

Eye gaze keyboard

- Python, OpenCV, Computer Vision
- Description

Multi-agent robotic hand push and grasp

Python, Vrep_Pro, RL, Multi-agent Robotics

Description

Stereo camera calibration

- Python, OpenCV, Computer Vision
- Description

Heart disease detection

- Python, Scikit-Learn, Machine-Learning
- Description

Comparison of elementary literature books and Sentiment Analysis

- WordMap, NLP
- Description

Sentiment Analysis

- Java, Open-nlp toolkit, NLP
- Description

Snakes and Ladders educational board game application

- As a project for red crescent
- Using Android Studio

Selected Academic Courses _____

- Artificial
 Intelligence and
 Expert Systems

 Foundation of
- Foundation of Computer Vision
- Foundations of Robotics
- Foundations of Computational Intelligence
- Foundations of Speech and Language Processing
- Signal and Systems

Technical Skills

Programming Languages Java, Python, C++, Spark Scala

Environments Android Studio, Unity, Intellij, Pycharm

Other OpenCV, Arduino, Clementine, Cytoscape, Tensorflow, Keras

Language Skills____

English fluent: **IELTS 7.5** (2018- 2020)

GRE 320 (Quant 167, Verbal 153, Writing 3)

Persian native

Reference__

Dr. Hossein Rahmani, Assistant professor at Computer Engineering Department at Iran

E-mail: h rahmani@iust.ac.ir

<u>**Dr. Sauleh Eetemadi**</u>, Assistant professor at Computer Engineering Department at Iran University of Science and Technology

University of Science and Technology and Research Fellow at Maastricht University

E-mail: sauleh@iust.ac.ir