Ilia Abolhasani

Curriculum Vitae

Personal Information

Date of Birth	10/Aug/1995
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Educational Background

2018 Masters student in **Bioinformatics** at Sharif University of Technology, **Average:** 17.16/20

M.Sc. Thesis: A method to improve binning of Metagenomics sequence fragments by using Gene Ontology relation

2013–2017 Bachelor of science in **Computer Science** at University of Science and Technology of Mazandaran(MAZUST), **Average:** 17.15/20, **Ranked** 2nd

2010–2013 Diploma in field of **Mathematics & Physics** at Doctor Omidi high school in Behshahr

Awards and Honors

2018 **Ranked** 2nd in ACM National competitions in Minudasht

2017 **Ranked** 1st National competitions (12th RoboNIT) in Artificial Intelligence (Machine Vision orientation)

2016 & 2017 **Awarded** as outstanding student of MAZUST in Computer Science field

2016 **Ranked** 4th National competitions (4th Khayam robotic in line follower robot)

2015 Certificates of appreciation for student & cultural activity at MAZUST

Selected Projects &Codes

2021 Improved Metagenomic binning by using gene ontology and statistical analysis on "2nd CAMI Human Microbiome Project Dataset"

2020 Gene expression patterns distinguish breast carcinomas from normal breast tissues. report

2019   Using statistical null hypothesis testing to show that the distribution of proteins that work together is significantly different from proteins that don't work together in Gene Ontology Namespaces.

2018   Employing image processing techniques for cancer detection using Microarray images

2018   Object detection with YOLO in ROS for HSR Toyota robot simulation

2017   University course scheduling with considering all the possibilities of with hybrid Genetic-Simulated annealing algorithm

2017   Accuracy comparison of supervised and semi-supervised methods in artificial neural network for EEG brain waves

2016   Comparison of wireless sensor network security design in a balanced incomplete symmetric key distribution method with noraml key distribution against attacks that capture the knot

2015   Car multi-objective optimization with NSGA II

2014   Implementation of 2048 game with 8086 Assembly language

Teaching Experiences

2021   Teacher assistant of **Bioinformatics Algorithms** course at Sharif University

2021   Teacher assistant of **Analysis of Biological Networks** courseat Sharif University

2019   Teacher assistant of **An introduction to Bioinformatics** course at Sharif University

2017   Teacher assistant of **fundamentals of computability theory** course at MAZUST

2016   Teacher assistant of **Database design** course at MAZUST

2014–2016   Teacher assistant of **computer fundamentals and programming** course at MAZUST

Scientific and Executive Experiences

2017   One of the main members of robotics association at MAZUST

2017   One of the executive members of @home robot workshop invited KameRaider team from Japan at MAZUST

2016–2017   One member of robotics team at MAZUST

2015–2016   One of the founders of cultural association at MAZUST

2015–2016   Leader of cultural association at MAZUST

2015–2017   One of the executive members of several festivals at MAZUST

2015   Executive director of a festival at the MAZUST

2014–2015   One of the main members of robotic association at MAZUST

2013–2014   Active member of the robotics association at MAZUST

Professional Skills

Programming language	**Python**(advanced), **Matlab**(advanced), **C#**(advanced), **SQL**(intermediate), **C++**(intermediate), **Java**(intermediate), **R**(intermediate), **PHP**(familiar), **HTML & CSS**(familiar), **Assembly**(familiar)
Database	Microsoft SQL Server, MySQL
OS	Linux (Ubuntu), Windows
SVC	Git, SVN
Packages and frameworks	Cytoscape, .NET MVC & API programming, OpenCV & Emgu-CV, Symfony & Doctrine ORM & Migration, IPython & Bioconda & Pandas & Numpy & Keras & Multiprocessing & Matplotlib & Sklearn, ggplot2, Office & Mendeley & LaTeX
Artificial Intelligence	Deep learning, Statistical data analysis, Single-objective & Multi-objective optimization, Artificial Neural Network, Image processing, Machine vision

Publications

Conference Paper

2018   Malihe Danesh, **Ilia Abolhasani**, Majid Sohrabi: "Using Improved ANFIS based whale optimization algorithm for smart phone malware detection", Accepted in The 5th International conference on Electrical engineering and computer

2017   Majid Sohrabi, **Ilia Abolhasani**, Mostafa HajiaghaeiKeshteli, "Solving the allocation of customers to potential distribution centers in supply chain networks by GA, KA, SA", Accepted in 10th International conference of Iranian operations research society

Languages Skills

Persian (Native),
English (High intermediate),
Arabic (Intermediate)