Seyed Soroush Hosseini Naghavi

Science and Research branch of IAU · Department of Computer Engineering

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EDUCATION

Science and Research Branch IAU

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING | GPA: 16.04/20 VIA 129 UNITS

- MGPA: 17.5/20 via 78 units
- Related courses:
 - Advanced Topics 01 Neural Networks: 20/20
 - Al and Expert Systems: 18/20
 - Algorithm Design: 17/20

TEACHING EXPERIENCE

Advanced Topics 01 - Deep Learning & Neural Networks

TEACHING ASSISTANT | INSTRUCTOR: FARSAD ZAMANI BOROUJENI | (SCHOLAR)

• Subjects taught: Design and Implementation of Neural Networks | Hands on experience with Tensorflow/Keras | Theory and basics of linear algebra and mathematics in Neural Networks

Digital Systems Design

Teaching Assistant | Instructor: Mahdi Bagherizadeh | (Scholar)

• Subjects taught: Theory and basics of FPGA, VLSI, PLD/CPLD | Designing basic circuits with different topologies

Python/Tensorflow Workshop

TEACHING ASSISTANT | INSTRUCTOR: HAMIDREZA BOLHASANI | (SCHOLAR)

• Subjects taught: Theory of Machine Learning/Deep Learning | modeling Neural Networks with SKLearn/Tensorflow

Robotics, Programming & Electronics

Teacher / Teaching Assitant

• Subjects taughts: Programming AVR Microchips with C | AVR Microchip simulation with Proteus Circuit Simulator | Basics of Electronics & Soldering

ACADEMIC & RESEARCH PROJECTS

Object Space Tracking Genzel Lab, Donders Institute for Brain, Cognition And Behaviour	
Research Intern Instructor: Abdelrahman Rayan (ResearchGate) Lisa Genzel (Scholar)	Summer 2023
Tracking Rodents with DEEPLABCUT, a software package for animal pose estimationData synchronization with rodents' LFP signals	
Handwriting Recognition in the medical industry (Prescription Recognition)	SRBIAU, Tehran, Iran
Research Assistant Instructor: Azadeh Zamanifar (Scholar)	Summer 2022
Model review; Easter 2.0, Improving Convolutional models for Handwritten text recogn	ition - Kartik Chaudhary

• Implementing a model in PyTorch framework; Easter 2.0

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SRBIAU, Tehran, Iran

Jan. 2023 - Jun. 2023

Tehran, Iran

Sept. 2019 - Present

SRBIAU, Tehran, Iran

t topologies

SRBIAU, Tehran, Iran Sept. 2022 - Dec. 2022

Kavosh Creativity House, Tehran, Iran

May 2019 - Dec. 2021

Jan. 2023 - Jun. 2023

PUBLICATIONS

2023	Hosseini Naghavi SS, Moosavi SR, Bolhasani H., An optimized neural network for real-time	In preparation	
2023	Endoscopy/Colonoscopy image segmentation.	in preparation	
2023	Moosavi SR, Hosseini Naghavi SS, Bolhasani H., Artificial Neural Network for colorectal cancer	In preparation	
	grading using histopathologic images.	in preparation	
2023	Zoghi AH, Mosalli A, Hosseini Naghavi SS, Golaghaei A., A deep learning method for land	In preparation	
	subsidence prediction.		

National Robocup Committee of Iran

TECHNICAL COMMITTEE & MEMBER

- Participated in International Robocup Competitions 2017 Japan and 2018 Canada as Kavosh Team and IRNC member
- Cooperated as Organizing Committee in the Asia-Pacific Robocup 2018, and IranOpen Robocup 2020, 2022, and 2023
 assigned as Technical committee/Referee for the Self-Driving cars League in the IranOpen Robocup 2022, and 2023
- assigned as reclinical commutee/ Referee for the sen-priving cars league in the nanopen Robocup 2022, and 2025

Ariaz Balan Servat

IT Specialist & Graphic Designer

• Managed office devices and computers and content creation for various social medias, Posters and Flyers

Kavosh Creativity House

Shareholder, Teacher & Graphic Designer

- Taught C Programming language, Electronics and soldering at various schools/high-schools
- Designed Flyers, Posters, Social media content etc.

Kavosh Robotics Team

Team member & Programmer

- Developed algorithms and software for an autonomous pathfinder rescue robot
- Implemented Various Software/Hardware methods to rescue victims using the robot

HONORS & AWARDS

2023	Technical Committee, Self-Driving Cars, National Robotics Competition, RoboCup Open	Tehran, Iran
2022	Technical Committee, Self-Driving Cars, National Robotics Competition, RoboCup Open	Tehran, Iran
2018	1st Place, International Robotics Competition, Robocup	Montreal, Canada
2017	1st Place, International Robotics Competition, Robocup	Nagoya, Japan
2018	1st Place, International Robotics Competition, Robocup Asia-Pacific	Kish Island, Iran
2018	1rd Place, National Robotics Competition, Robocup Open	Tehran, Iran
2017	1rd Place, National Robotics Competition, Robocup Open	Tehran, Iran
2016	1rd Place, National Robotics Competition, AUTCup Amirkabir University	Tehran, Iran
2016	1rd Place, World Mathematics Team Championship, Selection Exam	Tehran, Iran

SKILLS _____

Programming	Python C/C++ HTML/CSS3 JS LaTeX VBA	
Data Science	Tensorflow/Keras PyTorch SKLearn Matplotlib Opencv Pandas	
IDEs/Tools	Anaconda VSCode PyCharm VIM Terminal MATLAB Proteus Simulator Adobe PS/AI/PR/AE Altium Designer	
	CodeVision DeepLabCut	
Languages	Native Farsi English (TOEFL iBT Overall:103 - R24L30S25W24) Basic Arabic	

Tehran, Iran

Jun. 2017 - Present

Tehran, Iran Feb. 2021 - May 2021

Tehran, Iran

May 2019 - Dec. 2021

Tehran, Iran

Sept. 2016 - Mar. 2019