Seyed Soroush Hosseini Naghavi

SCIENCE AND RESEARCH BRANCH OF IAU . DEPARTMENT OF COMPUTER ENGINEERING

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EDUCATION

Science and Research Branch IAU

Tehran, Iran

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

Sept. 2019 - Present

- 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

SRBIAU, Tehran, Iran

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

Jan. 2023 - Jun. 2023

• 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 SRBIAU, Tehran, Iran

TEACHING ASSISTANT | INSTRUCTOR: MAHDI BAGHERIZADEH | (SCHOLAR)

Jan. 2023 - Jun. 2023

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

Python/Tensorflow Workshop

SRBIAU, Tehran, Iran

TEACHING ASSISTANT | INSTRUCTOR: HAMIDREZA BOLHASANI | (SCHOLAR)

Sept. 2022 - Dec. 2022

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

Robotics, Programming & Electronics

Kavosh Creativity House, Tehran,

Iran

TEACHER / TEACHING ASSITANT

May 2019 - Dec. 2021

• 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

RU, Nijmegen, The Netherlands

RESEARCH INTERN | INSTRUCTOR: ABDELRAHMAN RAYAN (RESEARCHGATE) | LISA GENZEL (SCHOLAR)

Summer 2023

- Tracking Rodents with DEEPLABCUT, a software package for animal pose estimation
- Data synchronization with rodents' LFP signals recorded with EEG;

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 recognition Kartik Chaudhary
- Implementing a model in PyTorch framework; Easter 2.0

PUBLICATIONS _____

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

WORK EXPERIENCE

National Robocup Committee of Iran

Tehran, Iran

TECHNICAL COMMITTEE & MEMBER

Jun. 2017 - Present

- 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

Ariaz Balan Servat

Tehran, Iran

IT Specialist & Graphic Designer

Feb. 2021 - May 2021

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

Kavosh Creativity House

Tehran, Iran

SHAREHOLDER, TEACHER & GRAPHIC DESIGNER

May 2019 - Dec. 2021

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

Kavosh Robotics Team Tehran, Iran

TEAM MEMBER & PROGRAMMER

Sept. 2016 - Mar. 2019

- 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