

Seyed Soroush Hosseini Naghavi

SCIENCE AND RESEARCH BRANCH OF IAU · DEPARTMENT OF COMPUTER ENGINEERING

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Research Interests

- Machine Learning
- Deep Learning Optimization and Efficiency
- Image Processing
- Neural/Brain Imaging and Neuroscience
- Signal Processing

Education

Science and Research Branch IAU

Tehran, Iran

COMPUTER ENGINEERING - BACHELOR OF SCIENCE

Sept. 2019 - Present

- MGPA: 3.59/4 via 78 units
- CGPA: 3.14/4 via 146 units
- Score: 15.6/20 via 146 units
- High-Graded related courses:
 - Advanced Topics 01 - Neural Networks: 18.25
 - AI and Expert Systems: 18
 - Algorithm Design: 17
 - MicroProcessors: 19

Honors & Awards

2022	Technical Committee , Self-Driving Cars, National Robotics Competition, RoboCup Open	Tehran, Iran
2023	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
Languages	Native Farsi English Basic Arabic

Research Experience

Handwriting Recognition in the medical industry (Prescription Recognition)

SRBIAU, Tehran, Iran

RESEARCH ASSISTANT | INSTRUCTOR: AZADEH ZAMANIFAR | (SCHOLAR)

Summer 2022

- Model study and review; Easter 2.0, Improving Convolutional models for Handwritten text recognition - Kartik Chaudhary
- Implementing a model in PyTorch framework; Easter 2.0

Teaching Experience

Advanced Topics 01 - Deep Learning & Neural Networks

SRBIAU, Tehran, Iran

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

Jan. 2023 - Jun. 2023

- Hands on experience with Tensorflow/Keras
- Design and Implementation of Neural Networks
- 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

- Designing various logical circuits with different factors
- Theory and basics of FPGA, VLSI, PLD/CPLD

Python/Tensorflow Workshop

SRBIAU, Tehran, Iran

TEACHING ASSISTANT | INSTRUCTOR: HAMIDREZA BOLHASANI | (SCHOLAR)

Sept. 2022 - Dec. 2022

- Theories of Machine Learning/Deep Learning
- Making Machine Learning models with SKLearn/Tensorflow
- Making Neural Networks and Deep Learning models with Tensorflow

Robotics, Programming & Electronics

Kavosh Creativity House, Tehran, Iran

TEACHER / TEACHING ASSISTANT

May 2019 - Dec. 2021

- Programming for AVR Microchips with C Programming Language
- Running Simulations on AVR Microchips with Proteus PCB Design and Circuit Simulator
- Basics of Electronics & Soldering

Work Experience

National Robocup Committee of Iran

Tehran, Iran

TECHNICAL COMMITTEE & MEMBER

Jun. 2017 - Present

- Participation in International Robocup Competitions 2017 Nagoya, Japan and 2018 Montreal, Canada as a member of the IRNC and Kavosh Robotics Team
- Event management in IranOpen Robocup 2022 and IranOpen Robocup 2023
- Technical committee/Referee, Self-Driving cars League, IranOpen Robocup 2022 and IranOpen Robocup 2023
- Organizing Committee, Practical Leagues sections, IranOpen Robocup 2020 and Asia-Pacific Robocup 2018

Ariaz Balan Servat

Tehran, Iran

IT SPECIALIST & GRAPHIC DESIGNER

Feb. 2021 - May 2021

- Maintain & manage office devices and computers
- Content creation for various social medias, Posters and Flyers

Kavosh Creativity House

Tehran, Iran

SHAREHOLDER, TEACHER & GRAPHIC DESIGNER

May 2019 - Dec. 2021

- Teaching 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

- Developing the Software/Hardware for an autonomous robot
- Implementing different navigation algorithms
- Various methods to rescue victims using the robot