




AmirMohammad Nouri

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amirmohammadnouri.github.io 

Education

- **Bachelor's Degree in Biomedical Engineering(Bioelectric)** (2020-2024)
Qazvin Islamic Azad University, Qazvin, Iran
CGPA:18.8/20(3.8/4)
- **Master of Business Administration** (2021-2022)
Tehran University, Faculty of Management, Tehran, Iran
CGPA:19/20(3.8/4)
- **High School Diploma and Pre-University in Natural Sciences** (2014-2019)
Shahid Soltani2(National organization for development of exceptional talents), Alborz, Iran

Research Interests

- **Medical Image Analysis**
- **Medical image 3D reconstruction**
- **Artificial Neural Network**
- **Reinforcement learning**
- **Medical Robotics**

Publications

- Gozar Ali Hazareh, Kasra Azizi, Alireza Mazlouni, AmirMohammad Nouri and Mohammad Norouzi (2024). A vision-based approach for quadrotor line following with sliding mode controller. 10th International Conference on Artificial Intelligence and Robotics- QICAR2024

Patents

- AmirMohammad Nouri. "Antibacterial hospital bed coated with Silver Nanoparticles for Organ transplant patients"
IR Registration No. 103694
Application Date:9th February 2021
- AmirMohammad Nouri, Ali Maleki, Amin Mousavi. "Design and manufacture of horseshoes with Carbon NanoComposites"
IR Registration No. 88786
Application Date:31th May 2016

Experiences

- **Research assistant in Medical Image Analysis** Alborz , Iran
AI specialized center of Alborz University of Medical Sciences Feb2023-Present
- **Teacher assistant for Signal processing** Qazvin , Iran
Prof. Hamid Ghadiri, Qazvin Islamic Azad University Nov-Jan 2023
- **Research assistant in Computer Vision at UAV Robotic Team** Qazvin , Iran
Mechatronics Research Laboratory (MRL) 2021-Present
- **intermediate level English teacher** Alborz , Iran
Alborz MS NGO Feb-May2020

Honors and Awards

- **The representative team and the 1st place of the flying robot league** Tianjin, China
MRL-UAV, RoboCup Asia Pacific invitational tournament 2023
- **1st place of International Unmanned Aerial Vehicle Robot League** Tehran, Iran
MRL-UAV, IranOpen Competition 2023
- **1st place of International Unmanned Aerial Vehicle Robot League** Tehran, Iran
MRL-UAV, IranOpen Competition 2022
- **Being 5% top students in the entrance exam of National Organization for Development of Exceptional Talents, also known as SAMPAD** Alborz, Iran
Shahid Solati2 High School 2013

Selected Projects

- **Embolism segmentation using Pytorch and MONAI in lung CT images based on the U-Net architecture**
- **The detection and classification of breast cancer cells in bright-field microscopy images based on YOLOv7 architecture**
- **Measurement of fetal head circumference from 2D ultrasound images using YOLOv8 for the diagnosis of congenital abnormalities**
- **Testing and implementing object detection Algorithms on custom datasets for RoboCup missions**
- **fine tuning Transformer based Optical Character Recognition(TrOCR) model on a Persian text dataset called Shotor**
- **Development behaviour, localization and path-planning of autonomous flying robots in robot operating system (ROS)**
- **Object detection and localization using HSV colorspace and Opencv library**

Skills

- **Programming Languages:** Python, C, C++, Latex
- **Professional skills and softwares:** 3D Slicer, PSpice, Linux, ROS, Git, SQL, SLAM
- **Frameworks and libraries:** MONAI, Pytorch, Tensorflow, Opencv, sklearn, depthai
- **Soft skills:** Team work, Leadership and public speaking

Certifications

- Advanced Computer vision with Tensorflow [!\[\]\(6302aad5aed157b291fddf37b4870784_img.jpg\)](#)
- Convolutional Neural Networks [!\[\]\(a9ca2c237943a6d0a9f22252f295b6f3_img.jpg\)](#)
- Supervised Machine Learning [!\[\]\(9a01a64e0b4ff865df7d32ee7991fe8b_img.jpg\)](#)
- PyTorch and Monai for AI Healthcare Imaging

Test Scores

- English IELTS Overall:7.5
Reading:8.5, Listening:8, Writing:6.5, Speaking:7

References

- **Dr. Mohammad Norouzi**
Faculty of Electrical, Computer and IT Engineering, and Mechatronics
Qazvin Azad University(Mechatronics Research Laboratory Director)
Email: norouzi@qiau.ac.ir
- **Dr. Hamid Ghadiri**
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