AMIN MALEKMOHAMMADI

A Computer Engineer with a background in Medical Image Analysis. I strongly desire to pursue a career where I can contribute to improving the health care system by translating AI algorithms into clinical practices.



CONTACT

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in Amin.Mm

SKILLS

Programming

Python C++ Matlab C# Node.js

Tools & Libraries

Computer Vision

(OpenCV, Scikit-Image, ITK)

Deep Learning

(PyTorch, TensorFlow, Keras)

Data handling

(NumPy, SciPy, pandas)

Languages

Persian • Native

Turkish • Native

English • IELTS to be taken

EDUCATION

IUST - Iran University of Science and Technology

Tehran, IR

M.Sc. In Computer Engineering Major: Artificial Intelligence

09/2019 - 08/2022

• Supervised by Dr. Mohsen Soryani

• Thesis: Mass detection and segmentation in Automated Breast Ultrasound (ABUS)

• CGPA: 3.53/4

Tabriz University

Tabriz, IR

B.Sc. In Computer Engineering Major: Information Technology

09/2014 - 08/2018

• Supervised by Dr. Seyed Naser Razavi

• Thesis: Music Genre Recognition with CNNs

• CGPA: 3.2/4

RESEARCH INTERESTS

- Computer Vision
- Medical Image Analysis
- Interpretability of Deep Models

PUBLICATIONS

Cancer Detection in Automated 3-D Breast Ultrasound Using a Patch Bi-Convlstm Network

🚰 A. Malekmohammadi, S. Barekatrezaei, E. Kozegar and M. Soryani

≅ 2022

Ultrasonics

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Mass Detection in Automated 3-D Breast Ultrasound Using an improved Inception 3D U-net

S. Barekatrezaei, A. Malekmohammadi, E. Kozegar and M. Soryani

2022

JMVIP

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SFLFCTFD PROJECTS

Video Augmented Reality

Keypoints of each video frame extracted with Harris corner detector and tracking performed with Lucas-Kanade algorithm

Sentiment Analysis

A study on performance of different word embedding techniques (e.g. BOW, Word2Vec and BERT) with several classi fiers (e.g. Support Vector Machines, Naive Bayes, Decision Tree and Random **Forests**

Implementation of Boosting Algorithms for Dealing with Data Imbalance AdaBoost.M2, SmoteBoost, RUSBoost and RBBoost.

Implementaion of Various Deep Models

YoloV5-face (realtime face detection), Super Resolution GAN (SRGAN), Gated Convolution for image inpainting and Residual Dense Blocks for image Restoration.