Masoumeh **Siar**

COMPUTER ENGINEER

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Education

M.Sc. in Computer Science-Artificial Intelligence. *Tehran, Iran*

ISLAMIC AZAD UNIVERSITY SCIENCE AND RESEARCH BRANCH. *sep 2015 - sep 2020*

- Thesis: Analysis Brain Magnetic Resonance Images for Tumor Detection and Classification Using Feature Extraction Methods and Convolutional Neural Network.

B.Sc. in Computer science-Software Engineering. *Babolsar, Iran*

PARSA INSTITUTE OF HIGHER EDUCATION. *October 2010 - September 2012*

- Thesis: Investigating cutting and mutation operators in the routing of relief agents.

Specializing in mathematics and physics. *Qaemshahr, Iran*

SHAHED-HIGH SCHOOL. *October 2002 - September 2008*

Work Experience

IRAN'S NATIONAL ELITES FOUNDATION *September 2020- Now*

- Working as part of "Machine learning application in medical since (diagnose depressed patients)" project, Shahid Ahmadi-roshan grant from Iran's National Elites Foundation. Center for converging technologies (http://utnbic.ir/).

NTELLIGENT SYSTEMS LABORATORY (ISLAB) *September 2016 - September 2017*

- Intelligent Systems Laboratory (ISLab), supervisor: Prof. Mohammad Teshnehlab. Research Topic: Deep learning for Medical Images, K. N.Toosi University of Technology, Tehran, Iran.

MEMBER OF THE YOUNG RESEARCHERS CLUB *September 2015 - Now*

- Member of the Young Researchers Club, Islamic Azad University. Tehran, Iran.

INTERNSHIP IN TELECOMMUNICATION COMPANY *September 2011*

- Internship in a telecommunication company for 1 year Of, Mazandaran, Iran.

LANGUAGE SKILLS

Persian: Native language.
English: Fluent.
Arabic: Basic A+.

Technical Skills

Programming Languages:	Python, Matlab, Java, C/C++, SQL, Pascal & Basic
Web Technologies:	HTML5
Databases:	MySQL
Software libraries and distributions:	TensorFlow, Pytorch, Sklearn, Matplot, Pandas, Numpy, PyQt
Cloud:	Google Colab, Microsoft Azure
Graphic:	Photoshop, Reallusion iClone, Adobe Premiere
Other:	Latex, Weka, HTML, MySQL, Netbeans, Jupyter Notebook, PyCharm, Git

Research Interests

- Artificial Intelligence/Machine Learning/Deep Learning and Neural Network
- Data Analysis /Information Retrieval
- Computer Vision/ Video Understanding/Action Analysis
- Image and Video Processing –> Medical Image Processing
- Natural language processing & Speech Processing

Certificates and Online Courses

- Online Course from Coursera.org Convolutional Neural Networks

Honors & Awards

2021 **First prize and first place in Anomaly Detection category,,** Iran's National Elites Foundation(Rahneshan) *Team Competitions*

2012 **GRADUATED WITH HONORS,** Graduated with honors in Bachelor of Science from Parsa Institute Of Higher Education. *Babolsar, Iran*

2012 **MEMBER OF THE UNIVERSITY ASSOCIATION,** Member of the Academic Society of Computer Engineering at Parsa University. *Babolsar, Iran*

Publications

- Masoumeh Siar, Mohammad Teshnehlab, Analysis of brain MRI images for tumor detection and classification using feature extraction algorithms and deep learning. IET Image Processing : (REVISE paper).
- Masoumeh Siar, Mohammad Teshnehlab, Age Detection from Brain MRI Images Using the Deep Learning. In2019 9th International Conference on Computer and Knowledge Engineering (ICCKE) 2019 Oct 24 (pp. 369- 374). IEEE.
- Masoumeh Siar, Mohammad Teshnehlab, Brain Tumor Detection Using Deep Neural Network and Machine Learning Algorithm. In2019 9th International Conference on Computer and Knowledge Engineering (ICCKE) 2019 Oct 24 (pp. 363-368). IEEE.
- Halimeh Siar, Mohmmad Teshnehlab, Diagnosing and Classification Tumors and MS Simultaneous of Magnetic Resonance Images Using Convolution Neural Network . 2019 7th Iranian Joint Congress on Fuzzy and Intelligent Systems (CFIS), Bojnord, Iran, IEEE.
- Masoumeh Siar, Mohammad Teshnehlab, Age and Gender Classification from Brain MRI Images Using the Convolutional Neural Network, Iranian conference on Biomedical Engineering (ICBME 2019).
- Halimeh Siar, Mohmmad Teshnehlab, Analysis Brain MRI Images for Tumor Detection Using Convolutional Neural Network. 49th Annual Iranian Mathematics conference, Iran University of Science and Technology, Tehran, Iran.
- Halimeh Siar, Fatemeh Siar: ”Evaluating the Effecty of Deep Learning in Speech Classification”. 49th Annual Iranian Mathematics conference, Iran University of Science and Technology, Tehran, Iran.