Masoumeh **Siar**

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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, A combination of feature extraction methods and deep learning for brain tumour classification. IET Image Processing. 2021 Oct 5.

- 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.