Mohammad Hossein Mohammadi

Curriculum Vitae

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INTERESTS

- Artificial Intelligence, Machine Learning
- Optimization Algorithm, Neural & NeuroFuzzy Network
- Computer Vision, Signal and Image Processing

EDUCATION

2015–2020 **BSc in Computer Engineering (Information Technology)**, *Department of Computer Engineering, Islamic Azad University, Najafabad Branch, Najafabad, Iran*.

- ○ Cumulative GPA .../4 (.../20)
- ○ Last 2 years' GPA .../4 (..../20)
- ○ **Thesis Title** : Semantic segmentation of breast cancer pathology images using the U-Net model
- ○ **Supervisor** : Dr.Mehdi Jabalameli

2011–2015 **Diploma in Mathematics and Physics**, *Sheikh Ansari High School, Isfahan, Iran.*.

- ○ GPA 18.53/20

PATENTS

[P1] S.Y.Moradi, **M.H.Mohammadi**, " The system for early detection of Heterochromia disease in the neonates ", *Iran Patent & Proccess US Patent.*

[P2] S.Y.Moradi, **M.H.Mohammadi**, S.Yaser.Moradi " The system for early detection of Wilson disease in the neonates ", *Provisional Patent.*

[P3] S.Y.Moradi, **M.H.Mohammadi**, P.Mohammadi " Pocket Protector Of Sensitive Injective And Inhalant Vials Against Temperature And Impact Changes ", *Iran Patent.*

[P4] S.Y.Moradi, **M.H.Mohammadi**, A.Anvari " Energy Waste Reduction System based on prediction of people's presence and working time in industries and medical centers ", *Iran Patent.*

[P5] S.Y.Moradi, S.Z.Moradi, **M.H.Mohammadi** " Coupling device temperature to body temperature for ambulances and hospitals sera ", *Iran Patent.*

[P6] S.Y.Moradi, **M.H.Mohammadi** " Temperature and oxygen saturation monitoring of IoT incubator baby ", *Iran Patent.*

PUBLICATIONS

Books

[B1] **M.H.Mohammadi**, A.Karimi, S.Y.Moradi.*" A Step-By-Step Guide to Patenting in Iran ".* Tehran,Iran.Arna.2020.

[B2] **M.H.Mohammadi**, S.Y.Moradi.*" TensorFlow Tutorial ".* Tehran,Iran.Arna.March,2021.

[B3] **M.H.Mohammadi**, S.Y.Moradi.*" Artificial intelligence Tutorial "*. Tehran,Iran.Arna.March,2021.

[B4] S.Y.Moradi, **M.H.Mohammadi**.*" Basics of Internet of Things (IoT) "*. Tehran,Iran.Arna.March,2021.

[B5] S.Y.Moradi, **M.H.Mohammadi**.*" Arduino Tutorial "*. Tehran,Iran.Arna.March,2021.

[B6] **M.H.Mohammadi**, S.Y.Moradi, M.Siampour.*" CEH(Certified Ethical Hacker) "*. Tehran,Iran.Arna.March,2021.

[B7] A.Salehi, S.Y.Moradi, **M.H.Mohammadi**, M.Radaei.*" Principles Of Image Compression in The Medical and Aerial Image By MATLAB Software "*. Tehran,Iran.Arna.2021.

[B8] S.Y.Moradi, **M.H.Mohammadi**, M.Radaei.*" Basics of Brain and Computer Interfaces "*. Tehran,Iran.Arna.March,2021.

Papers

[J1] S.Y.Moradi, M.Akbari Moghaddam, **M.H.Mohammadi**, " Computer Modeling of Information Transmission Principles and Methods in Telemedicine Networks " , *Journal of Rafsanjan University of Medical Sciences (JRUMS), 2018.*

[C1] S.Y.Moradi, M.Akbari Moghaddam, **M.H.Mohammadi**, " Telemedicine Methods; Basics, Design, and Optimization " , *3rd International conference on Modern Approaches in Science, Technology and Engineering, 2018*

HONORS & AWARDS

Sep 2019 **2ⁿᵈ Team Rank**, 7th Mobile Programming Marathon along with the "Chelesme" team members, 85 teams participated from Iran, *Sharif University of Technology, Tehran, Iran*.

Sep 2017 **3ʳᵈ Team Rank**, 4th Mobile Programming Marathon along with the "Yakhmak" team members, 90 teams participated from Iran, *Sharif University of Technology, Tehran, Iran*.

Jun 2015 **Top 2 %**, Nationwide entrance exam of Iranian Universities, very competitive with nearly 250,000 participants.

RESEARCH & VOLUNTEER WORK

2018–2019 **Isfahan University Machine Learning Laboratory**, *Isfahan, Iran*.
Topics: Computer Vision, Signal and Image Processing

Apr 2018 **Team Manager**, *Tebyan Cultural, "13th Student Projects Festival" Shahid Beheshti University International Conference Center, Tehran, Iran* .

Oct 2016 - **International Conference on Computer Science and Engineering** , *Faculty of Computer Engineering Islamic Azad University, Najafabad Branch, Isfahan, Iran* .
Apr 2017

Jul 2017 **Open Source Softwares Conference & Ubuntu 17.04 Release Party** , *Speaker: "How to Prevent DOS & DDOS Attacks on Linux Servers, University of Isfahan, Isfahan, Iran* .

Nov 2017 - **International Federation of Red Cross and Red Crescent Societies** - **IFRC**, *Isfahan & Kermanshah, Iran*.
Mar 2020
Rescue Team

WORK EXPERIENCE

May 2020 - **Freelance Designer**, *UpWork, Mountain View, CA* .
Jun 2020

Jan 2018 - Jun 2020	**Researcher and Patentable**, *Iran Patent Center (Kanoon IPC), Tehran, Iran* .
May 2016 - Aug 2016	**Internship & Work - Android Developer**, *ITBarbod Company, Isfahan, Iran* .
May 2016 - Aug 2016	**Internship - Android Developer, UI & UX Design**, *Aron Company, Isfahan, Iran* .

SELECTED PROJECTS

Oct 2017	**Reverse Engineering Borescope Video Device**: S.Y.Moradi, M.H.Mohammadi, Iran.
Aug 2020	Using Machine Learning Techniques for Accurate and Early Identification of Asthma and its Affecting Factors
Aug 2020	Using Machine Learning Techniques for Accurate and Early Identification of Myocardial infarction and its Affecting Factors
Jul 2019	Development of car license plate recognition software
Nov 2019	Remote Temperature Monitoring and Controlling Via Sending Text Messages (Intelligent Thermostat)
Nov 2019	Intelligence and control of home appliances by the microcontroller
Jul 2018	Development of face recognition software using the Viola-Jones algorithm

SKILS

Technical Skills	JAVA, MATLAB, Python, R, C,C++	Tensorflow	SQL, XML, HTML, CSS, Wordpress	Ubuntu Linux, Kali Linux, Microsoft Windows Server, Microsoft Windows
Tools and Softwares	Wireshark, SAMtools, MetaVelvet, BLAST - NCBI, MetaPlAn, SPSS	Android Studio, RStudio, Pycharm, Eclipse, MS Visual Studio, Intellij, Git, Inventor, Sentry MBA	Adobe XD, Adobe Photoshop, Adobe InDesign

LANGUAGES

Persian	Mother Tongue
English	Moderate

REFERENCES

○ **Dr. Behrang Barekatain**, Professor
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*
Post Doctoral from Ryerson University, Ontario, Canada
Email : $behrang_b arekatain@yahoo.com$

○ **Dr. Mehdi Jabalameli**, Assistant Professor
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*
Phd from University of Isfahan, Isfahan, Iran
Email : mjameli@yahoo.com