

# Mohammad Hossein Mohammadi

## Curriculum Vitae

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📁 [MohammadiMH76.github.io](https://github.com/MohammadiMH76)

## 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 2.84/4 (14.89/20)
- Last 2 years' GPA 3.12/4 (15.54/20)
- **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**, S.Yaser.Moradi " The system for early detection of Wilson disease in the neonates ", *Provisional Patent.*
- [P2] S.Y.Moradi, **M.H.Mohammadi**, " The system for early detection of Heterochromia disease in the neonates ", *ir 139850140003011312 .Iran Patent.*
- [P3] S.Y.Moradi, **M.H.Mohammadi**, P.Mohammadi " Pocket Protector Of Sensitive Injective And Inhalant Vials Against Temperature And Impact Changes ", *ir 139850140003011419 .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 ", *ir 139850140003011094 .Iran Patent.*
- [P5] S.Y.Moradi, S.Z.Moradi, **M.H.Mohammadi** " Coupling device temperature to body temperature for ambulances and hospitals sera ", *ir 139550140003013173 .Iran Patent.*

## PUBLICATIONS

- [B1] **M.H.Mohammadi**, A.Karimi, S.Y.Moradi. " *A Step-By-Step Guide to Patenting in Iran* ". Tehran,Iran.978-600-356-922-8.Arna.2020.Publication Medium.([Amazon Link](#))
- [B2] **M.H.Mohammadi**, S.Y.Moradi. " *TensorFlow Tutorial* ". Tehran,Iran.978-622-291-016-7.Arna.March,2021.Publication Medium.
- [B3] **M.H.Mohammadi**, S.Y.Moradi, M.Mohammadi. " *Artificial intelligence Tutorial* ". Tehran,Iran.978-622-291-049-5.Arna.March,2021.Publication Medium.

- [B4] **M.H.Mohammadi**, S.Y.Moradi, M.Siampour. " *CEH(Certified Ethical Hacker)* ". Tehran,Iran.978-622-291-040-2.Arna.March,2021.Publication Medium.
- [B5] S.Y.Moradi, **M.H.Mohammadi**. " *Basics of Internet of Things (IoT)* ". Tehran,Iran.978-622-2910-14-3.Arna.March,2021.Publication Medium.
- [B6] S.Y.Moradi, **M.H.Mohammadi**. " *Arduino Tutorial* ". Tehran,Iran.978-622-2910-15-0.Arna.March,2021.Publication Medium.
- [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.978-622-291-001-3.Arna.2021.Publication Medium.
- [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 **2<sup>nd</sup> 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 **3<sup>rd</sup> 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
- 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*
- Mar 2020 **& Kermanshah, Iran. (Rescue Team)**.

## WORK EXPERIENCE

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

## SELECTED PROJECTS

- Oct 2017 **Reverse Engineering Video Borescope Device:** S.Y.Moradi, M.H.Mohammadi, Iran.
- May 2021 Fully-Convolutional Siamese Networks for Object Tracking using YOLO deep learning
- May 2021 Emotion Recognition using Convolutional Neural Network (Keras,Pandas,Numpy,Sklearn)

- July 2021 Object Recognition using Recurrent Neural Network (Keras,Numpy,Pandas,Scikit-Image,Matplotlib,Scikit-Learn,MTCCNN)
- Oct 2021 Facial recognition using Multi-Task Convoluted Neural Networks and VGG (Keras,Numpy,Pandas,Scikit-Image,Matplotlib,Scikit-Learn)
- Nov 2021 Automatic number-plate recognition with Deeplearning using pytorch
- Aug 2020 Using Machine Learning Techniques for Accurate and Early Identification of Asthma 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

## SKILLS

- Technical Skills JAVA, MATLAB, Python, R, C,C++ | OpenCV, Tensorflow, Keras, PyTorch, Scikit-Learn, Pandas | SQL, XML, HTML, CSS, Wordpress | Ubuntu Linux, Kali Linux, Microsoft Windows Server, Microsoft Windows
- Tools and Softwares Wireshark, SAMtools, MetaVelvet, BLAST - NCBI, MetaPIAn, 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 Barekatin**, Assistant Professor  
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*  
Post Doctoral from Ryerson University, Ontario, Canada  
Email : [behrang\\_barekatin@iaun.ac.ir](mailto:behrang_barekatin@iaun.ac.ir)
- **Dr. Akbar Nabiollahi**, Assistant Professor  
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*  
Phd from University of Technology Malaysia, Johor, Malaysia  
Email : [a.nabi@pco.iaun.ac.ir](mailto:a.nabi@pco.iaun.ac.ir)
- **Dr. Mehdi Jabalameli**, Assistant Professor  
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