CV

Muhammad (Tony) Yousefnezhad

"I want to learn everything profoundly and then make them better."

College of Computer Science and Technology
Nanjing University of Aeronautics and Astronautics
29 Jiangjun Rd., Jiangning District, Nanjing, 211106, China
+86-132-6097-3570
myousefnezhad@outlook.com
myousefnezhad@nuaa.edu.cn
https://myousefnezhad.sourceforge.io

PERSONAL

Nationality: Iranian	Height: 1.80m
Place of birth: Qaemshahr, Iran	Data of birth: Feb/11/1987
Marital status: Married	Health: Excellent

EDUCATION

Ph.D. Computer Science — Artificial Intelligence, Sep/2014—Jul/2018

Nanjing University of Aeronautics and Astronautics, China

GPA: 87 of 100

M.Sc. Information Technology — Artificial Intelligence, Feb/2011—Sep/2013

Mazandaran University of Science and Technology, Iran

GPA: 19.37 of 20 (2nd top student)   Thesis: 19.5 of 20

B.Sc. Computer Science — Hardware Engineering, Sep/2008—Jun/2010

Mazandaran University of Science and Technology, Iran

GPA: 18.52 of 20 (top student)   Thesis: 20 of 20

H.N.D. Computer Science — Hardware Engineering, Sep/2004—Aug/2006

Azad University, Eqlid Branch, Iran

GPA: 17.52 of 20 (top student)   Thesis: 20 of 20

RESEARCH INTERESTS

- Deep Learning, Machine Learning, Statistical Pattern Recognition, and Data Mining.

- Big data, Biological data analysis, Human Brain's data analysis, i.e. fMRI, EEG, MEG, MRI, PET.

ACADEMIC EXPERIENCE

- **Jul/2017 Present,** Director of Brain Decoding Section. In: iBRAIN group, Nanjing University of Aeronautics and Astronautics, China.
- **Sep/2014 July/2017,** A research assistant. In: iBRAIN group, Nanjing University of Aeronautics and Astronautics, China.
- **Feb/2015 Sep/2015,** A teacher assistant in Data Mining course, Nanjing University of Aeronautics and Astronautics, China.
- **Feb/2010 Jul/2014,** A lecturer in the courses: Network Lab., Machine Learning, Data Mining, and Expert System. In: Mazandaran University of Science & Technology, Iran.
- **Jan/2010 Aug/2014,** A manager at AI & Software Lab. In: Rasa Ertebatat Soffe Co., Iran.
- **Nov/2008 Sep/2009,** A teacher assistant in the courses: C#, x86 Assembly, Network OS. In: Mazandaran University of Science and Technology, Iran.
- **Nov/2004 Sep/2005,** A teacher assistant in the courses: C, C++, Digital Electronics, Computer Architecture, and FPGA Lab. In: Azad University, Eqlid, Iran.

HONORS

- **2016,** The best student paper award in the BICS 2016 for our paper entitled "Decoding visual stimuli in human brain by using Anatomical Pattern Analysis on fMRI images."
- **2014,** Invited to a Ph.D. course as a Brilliant Student with a full scholarship of China Scholarship Council (CSC) in the "Nanjing University of Aeronautics and Astronautics," China.
- **2013,** Graduated as the top student over 25 peers in the course (M.Sc.), "Mazandaran University of Science and Technology," Iran.
- **2010,** Invited to M.Sc. interview as a Brilliant Student without the entrance exam in "Mazandaran University of Science and Technology," Iran.
- **2010,** Graduated as the top student over 30 peers in the course (B.Sc.), "Mazandaran University of Science and Technology," Iran.
- **2006,** Invited to B.Sc. interview as a Brilliant Student without the entrance exam in "Azad University Eqlid branch," Iran.
- **2006,** Graduated as the top student over 40 peers in the course (HND), "Azad University Eqlid branch," Iran.
- **2001,** the 3rd in Mazandaran Kharazmi Festival for designing computer software to manage and control the cost and time of the Industrial Projects.
- **1999,** the 2nd programmer in National Computer Programming Competition, Mazandaran, Iran.

SKILLS

Artificial Intelligence: R, Weka, Gephi, Cytoscape, SPSS Modeler.

Machine Learning Library: Scikit-learn, Tensorflow, Theano, Torch, PyCUDA, Scikit-CUDA.

Programming Languages: Python, Matlab, C, C++, C#, Java, PHP, AJAX, jQuery.

Neuroscience: AFNI, FSL, SPM, FreeSurfer, Group ICA, NIfTI.

Programming Studio: J-Developer, Visual Studio, Eclipse.

Database: Oracle Database, Microsoft SQL, Postgre-SQL, My-SQL, MS Access.

OS: OSX, Linux (Ubuntu, SUSE, Red Hat, Cent-OS, and Debian), Windows, Solaris.

Network: Cisco IOS, Cisco Unified Communication, Microsoft ISA, and Exchange.

Designing Hardware: ModelSim, Altium Designer, Xilinx ISE, KEIL ARM, IAR ARM, L-EDIT.

Hardware: Cisco routers and switches, Siemens IP-PBX, Avaya IP-PBX, Asus and HP servers.

PROJECTS

- Founder of Easy fMRI, available at https://easyfmri.sourceforge.io
- Founder of Easy Data, available at https://easyfmridata.sourceforge.io
- Designing Expert System for forecasting production rate in Reza Noor Ltd.
- Designing cheat detection for finance system in Reza Noor Ltd.
- Designing and implementing Smart Identifier (a general smart key).
- Designing and implementing Data Center for Sari municipality.
- Designing and implementing a network in Reza Noor Ltd. for 700 users.
- Designing FPGA, USB, and PCI learning kit (for MUST University).
- Designing Emergency lights, LED halogen lights, and fluorescent blast for Reza Noor Ltd.
- Designing ICT-Master plan for Mazandaran University of Science & Technology
- Analysis and implementation of software for network management at Reza Noor Ltd.

JOURNAL REFEREE

- IEEE Transactions on Cybernetics
- IEEE Sensors Journal
- Multimedia Systems

PUBLICATIONS

- **Conference Papers**
  o 2017. **M. Yousefnezhad**, D. Zhang, Deep Hyperalignment, *31st Advances in Neural Information Processing Systems (NIPS)*, Long Beach, USA, December/4-9, ***Spotlight Presentation***.
  o 2017. **M. Yousefnezhad**, D. Zhang, Multi-Region Neural Representation: A novel model for decoding visual stimuli in human brains. *SIAM International Conference on Data Mining (SDM)*, Houston, Texas, USA, April/27-29, pp. 54-62.
  o 2017. **M. Yousefnezhad**, D. Zhang, Local Discriminant Hyperalignment for multi-subject fMRI data alignment. *34th AAAI Conference on Artificial Intelligence (AAAI)*, San Francisco, California, USA, February/4-9, pp. 59-65.
  o 2016. **M. Yousefnezhad**, D. Zhang, Decoding visual stimuli in human brain by using Anatomical Pattern Analysis on fMRI images. *8th International Conference on Brain Inspired Cognitive Systems (BICS)*, Beijing, China, November/28-30, ***Best Student Award***.
  o 2016. M. Bagheri, **M. Yousefnezhad**, A. Reihanian, Non-functional requirement management in service orientation by using aspect orientation. *3rd International Conference on applied research in Computer and Information Technology*, Tehran, Iran, February/04 (in Persian)
  o 2015. **M. Yousefnezhad**, D. Zhang, Weighted Spectral Cluster Ensemble, *IEEE International Conference on Data Mining series (ICDM'15)*. Atlantic City, New Jersey, USA.
  o 2015. A. Reihanian, B. Minaei-Bidgoli, **M. Yousefnezhad**, Evaluating the effect of topic consideration in identifying communities of rating-based social networks. *7th International Conference on Information and Knowledge Technology (IKT'15)*, Urmia, Iran.
  o 2015. S. Aghaei Nezhad Firouzja, **M. Yousefnezhad**, M. Fauzi Othman, M. Samadi, A wised routing protocols for Leo Satellite Networks, *10th Asian Control Conference*, Universiti Teknologi Malaysia, Malaysia.
  o 2015. M. Tourandaz, **M. Yousefnezhad**, S. Nourian, To propose a new method for diagnosing Alzheimer's disease based on the selected features via sparse coding, *7th Iranian & 1st International Conference of Knowledge Management*, Shahid Beheshti University, Tehran, Iran (in Persian).
  o 2015. M. Tourandaz, **M. Yousefnezhad**, S. Nourian, Diagnosis of Alzheimer's Disease by applying Support Vector Machine on the Locally Linear Embedding mapped data, *1st ICCONF.* Tehran, Iran (In Persian).
  o 2015. M. Tourandaz, **M. Yousefnezhad**, S. Nourian, Diagnose mild cognitive impairment's disease based on the selected features via sparse coding. *National Conference on Intelligent Systems and Communications Technology (TSPI '12)*, Tabriz, Iran (in Persian).
  o 2015. M. Tourandaz, **M. Yousefnezhad**, S. Nourian, To propose a new method for predicting Alzheimer disease in MCI subjects based on the selected features via sparse coding, *National Conference on Information & Communication Technology (ICT'15)*, Shahid Beheshti University, Tehran, Iran (in Persian).
  o 2015. M. Kazemi, **M. Yousefnezhad**, S. Nourian, Persian Handwritten Letter Recognition Using Ensemble SVM Classifiers Based on Feature Extraction. *National Conference on Intelligent Systems and Information and Communications Technology*, Tabriz, Iran (in Persian).
  o 2014. M. Kazemi, **M. Yousefnezhad**, S. Nourian, Persian Handwritten Letters Recognition with Using Ensemble Methods, *2nd Conference on Computer and Information Technology (CSCCIT'14)*, Tabriz, Iran (in Persian).
  o 2013. **M. Yousefnezhad**, H. Alizadeh, B. Minaei-Bidgoli, New cluster ensemble selection method based on Diversity and Independent metrics. *5th Conference on Information and Knowledge Technology (IKT'13)*, Shiraz, Iran (in Persian).

- **Journal Papers**
  - 2017. **M. Yousefnezhad**, D. Zhang, Anatomical Pattern Analysis for decoding visual stimuli in human brains. *Cognitive Computation*. Springer, pp. 1–12.
  - 2017. **M. Yousefnezhad**, S. J. Huang, D. Zhang, WoCE: a framework for clustering ensemble by exploiting the wisdom of Crowds theory. *IEEE Transactions on Cybernetics*, Issue 99, pp. 1-14.
  - 2017. F. Asghari-Paeenroodposhti, S. Nourian, **M. Yousefnezhad**, Wised Semi-Supervised Cluster Ensemble Selection: A New Framework for Selecting and Combing Multiple Partitions Based On Prior knowledge. *Journal of Advances in Computer Research*, vol. 8(1).
  - 2016. **M. Yousefnezhad**, A. Reihanian, D. Zhang, B. Minaei-Bidgoli, A new selection strategy for selective cluster ensemble based on Diversity and Independency. *Engineering Applications of Artificial Intelligence (EAAI)*, Elsevier, vol. 56, pp. 260-272.
  - 2015. H. Alizadeh, **M. Yousefnezhad**, B. Minaei-Bidgoli, Wisdom of Crowds Cluster Ensemble, *Intelligent Data Analysis*, IOS Press, vol. 19(3).
  - 2015. M. Kazemi, **M. Yousefnezhad**, S. Nourian, A New Approach in Persian Handwritten Letters Recognition Using Error Correcting Output Coding, *Journal of Advances in Computer Research*, vol. 6(4).

- **Abstract (Talks)**
  - 2017. Deep Hyperalignment. Special invited, 15th Workshop in Machine Learning and Application (MLA'17), Beijing Jiaotong University, China.
  - 2015. Adaptive Weighted Spectral Clustering. Keynotes, 3rd International Conference of Postgraduates, Nanjing University of Aeronautics and Astronautics, China.
  - 2014. The wisdom of Crowds cluster ensemble selection. Keynotes, 2nd International Conference of Postgraduates, Nanjing University of Aeronautics and Astronautics, China.
  - 2011. Network Security, Keynotes, 1st Annual Conference on Stable Networks, Mazandaran University of Science and Technology, Iran (in Persian).