

Ali MIRZAEI

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🎓 EDUCATION

- 2017 - 2020 Ph.D. in ELECTRICAL ENGINEERING(COMMUNICATION SYSTEMS)
[Amirkabir University of Technology \(AUT\) - \(Tehran Polytechnic\)](#)
Research Field: “Using Deep Learning in LTE and Channel Estimation ” | Supervisors: [Dr. Hamid SHEIKHZADEH](#) , [Dr. Vahid POURAHMADI](#)
- 2013 - 2015 M.Sc. in ELECTRICAL ENGINEERING(COMMUNICATION SYSTEMS)
[Amirkabir University of Technology \(AUT\) - \(Tehran Polytechnic\)](#)
Average : 18.78/20 via 32 credits (Ranked 2th)
Thesis: “Variational Relevant Sample-Feature Machine: A fully Bayesian approach for embedded feature selection” (20/20) | Supervisor: [Dr. Hamid SHEIKHZADEH](#)
- 2011 - 2015 B.Sc. in COMPUTER SCIENCE (AS A SECOND MAJOR)
[Amirkabir University of Technology \(AUT\) - \(Tehran Polytechnic\)](#)
Average: 17.71/20 via 133 credits
- 2009 - 2013 B.Sc. in ELECTRICAL ENGINEERING
[Amirkabir University of Technology \(AUT\) - \(Tehran Polytechnic\)](#)
Average : 18.69/20 via 140 credits (Ranked 2th)
Thesis: “Game Theoretic Approach for Management of Pursuing of multi- target” (20/20) | Supervisor: [Dr. Yaser NOROUZI](#)

🧰 RESEARCH INTERESTS

- Computer Vision
- Deep Learning
- Natural Language Processing
- Artificial Intelligence

🔧 WORK EXPERIENCE

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|------------------------|--|
| JAN. 2018 - CUR. | CEO at FARAADID , Tehran
Working on computer vision and natural language processing and artificial intelligence products |
| SEPT. 2014 - Jan. 2018 | Senior Developer and Computer Vision Expert at FARAADID , Tehran
Infrastructure and core engine developer and deep learning engineer, which facilitates development of machine vision solutions in ITS, Security and Surveillance industry. |

⚙️ TECHNICAL SKILLS

PROGRAMMING	Proficient:	PYTHON, C/C++, MATLAB
	Intermediate:	L ^A T _E X, MYSQL, LINUX SHELL SCRIPT (BASH)
	Basic:	HTML, CSS, JS, JAVA
	Libraries:	TENSORFLOW, KERAS, QT, OPENCV, NUMPY, PANDAS, SCIKIT-LEARN
SOFTWARE	Technologies:	SCRUM, VERSION CONTROLLING(GIT), UNIT TESTING, DOCKER.
	Tools:	VIM, GITHUB, GITLAB, CMAKE.
	Platforms:	LINUX, WINDOWS

👥 INVOLVED PROJECTS

- 2018 - *Curr.* Working on a scalable framework for video processing applications using deep-learning
- 2017 Detection of abnormal behavior of an entity (user, device or network) in a network using traffic data
- 2015 - 2017 Design and implement machine vision software for surveillance camera of Road Management Center Organization in Qt framework at Faraadid.
- 2015 Developing a License Plate Recognition (LPR) System at Faraadid
- FALL 2014 Car Detection and tracking in OpenCV at Faraadid

🏆 HONORS

- FALL 2018 *Straight* admission at the Department of Electrical Engineering of AUT as a Ph.D. student
- FALL 2015 Identified as the best team in Amirkabir Artificial Intelligence Competition 2015
- FALL 2013 *Straight* admission at the Department of Electrical Engineering of AUT as a graduate student
- FALL 2013 Ranked 4th in National Olympiad of Electrical Engineering
- FALL 2012 Recognized as an *exceptionally talented* student at AUT in communication major
- FALL 2009 Identified as an *elite student* by [National Organization for Educational Testing \(Sanjesh\)](#) due to excellent performance in nationwide college entrance exam.
Ranked 172 among about 400,000 applicants.
- AUG 2008 Ranked 3th in National Physics Laboratorial Olympiad Competition
- 2007 Member of students Robocup team (2D Soccer Simulation) of South-Khorasan province
- 2004 Accepted at National Organization for Development of Exceptional Talents (NODET)

📖 PUBLICATIONS AND WORKSHOPS

- Journal "VARIATIONAL RELEVANT SAMPLE-FEATURE MACHINE: A FULLY BAYESIAN APPROACH FOR EMBEDDED FEATURE SELECTION.", **Mirzaei, Ali**, Yalda Mohsenzadeh, and Hamid Sheikhzadeh. *Neurocomputing* (2017).

- Conference "NEAR REAL-TIME VEHICLE DETECTION AND TRACKING IN HIGHWAYS", E. Soroush, **A. Mirzaei**, Sh. kamkar, *The 15th International Conference on Traffic and Transportation Engineering (ICTTE)*, 2015.
- Conference "ADAPTIVE GAUSSIAN KERNEL LEARNING FOR SPARSE BAYESIAN CLASSIFICATION: AN APPROACH FOR SILHOUETTE BASED VEHICLE CLASSIFICATION.", **A. Mirzaei**, Yalda Mohsenzadeh, Hamid Sheikhzadeh, *9th Iranian Conference on Machine Vision and Image Processing*, , IEEE, 2015.
- Conference "COMBINED MRMR-MLPSVM SCHEME FOR HIGH ACCURACY AND LOW COST HANDWRITTEN DIGITS RECOGNITION", MohammadHassan Shammakhi, **A. Mirzaei**, Khavari, P., Pourahmadi, V., *9th Iranian Conference on Machine Vision and Image Processing*, , IEEE, 2015.
- Workshop "AN INTRODUCTION TO OPENCV, WORKSHOP", **A. Mirzaei**, E. Soroush, *9th Iranian Conference on Machine Vision and Image Processing*, IEEE, 2015.

TEACHING EXPERIENCE

FALL 2014 *Teaching Assistant Statistics and Probability*, ELECTRICAL ENGINEERING DEPARTMENT
Instructor: Dr. Emadi

LANGUAGES

PERSIAN: Native ENGLISH: Fluent

HOBBIES

Reading books, Hiking, Reading Poem, Playing Soccer.