

Mohammad Javadi

Curriculum Vitae

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Research Interests

- Deep Learning
- Intelligent Robotics
- Perception and Modeling
- Human-Robot Interaction
- Computer Vision
- Multi-Agent Robotics
- Learning and Adaptation in Robotics

Education

- 2013–2018 **B.Sc student in Computer Engineering and Information Technology**,
Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran,
High graded related courses: Advanced Programming:20, Design of Algorithms:
19.7, Foundations of Data Mining: 18.8, Signals & Systems: 15.75(among top 3
grades), Data Structures. & Algorithms: 15.9.
- 2009–2012 **Diploma in Mathematics and Physics**,
Allame Helli 2 High School, Tehran, Iran.

Honor and Awards

- July 2016 **1th place** of Robocup Humanoid Teen Size League - Technical challenge
International Robocup Competition, Leipzig, Germany.
- April 2016 **1th place** of Robocup Humanoid Teen Size League - Soccer challenge
Iranopen Robocup Competition, Tehran, Iran.
- July 2015 **2th place** of Robocup Humanoid Teen Size League - Technical challenge
International Robocup Competition, Hefei, China.
- July 2015 **3th place** of Robocup Humanoid Teen size league - Soccer challenge
International Robocup Competition, Hefei, China.
- April 2015 **1th place** of Robocup Humanoid Teen size humanoid league - Technical challenge
Iranopen Robocup Competition, Tehran, Iran.
- July 2013 **Nationwide University Entrance Exam 2013**. Ranked in the top 0.001% among
all applicants **ranked 770**.(out of 300000+ participants)

Publications

- [1] Azar SM, Azami S, Ghadimi M, **Javadi M**, Nickabadi A. Zoom-RNN: A Novel
Method for Person Recognition Using Recurrent Neural Networks, Submitted for
ECCV 2018(Rejected).

- [2] **Javadi M**, Azar SM, Azami S, Shiry S, Ghidary SS, Baltes J. Humanoid Robot Detection using Deep Learning: A Speed-Accuracy Tradeoff, International Robocup Symposium, July 2017.

Technical Reports

- [1] Sadeghnejad S, Baltes J, Ramezani S, **Javadi M**, Karimi M, Valaei A, Santos J, Poon T, Yazadnkhou B, Alihosseini D, Hosseini MS. AUTMan Humanoid TeenSize Team Description Paper, July 2016.
- [2] Sadeghnejad S, Baltes J, Ramezani S, Karimi M, **Javadi M**, Karimi M, Valaei A, Ahmadi A, Hosseinmemar A, Santos J, Poon T, Shamshirdar F, Heydari M, Azari B, Behjou S. AUT-UofM Humanoid TeenSize Team Description Paper RoboCup 2015 Humanoid TeenSize Robot League, July 2015.
- [3] **Javadi M**, Valaee A. A High Speed Vision System for Humanoid Soccer Player Robots, August 2017.

Research Experience

- April 2014 – July 2017 **Research Assistant**, *Humanoid Robotic Laboratory in Amirkabir Robotic Center(ARC), Tehran, Iran*
Supervisors: Prof. Mohsen Bahrami, Prof. Jacky Baltes, Prof. Saeed shiry, Dr. Soroush Sadeghnejad
**AUT-UofM Humanoid Robotic team(Joint team with Snobots from University of Manitoba) .*
- February 2017 – April 2018 **Research Assistant**, *Cognitive Robotics Lab, Computer Engineering Department of AmirKabir University of Technology, Tehran, Iran*
Supervisor: Prof. Saeed Shiry .

Teaching Experience

- Winter 2019 **Teaching Assistant**, *Deep Learning(M.Sc. Course)*, Dr. Saeed Shiry, Computer Science department, Amirkabir University of technology.
- Spring 2018 **Teaching Assistant**, *Foundation of Data Mining*, Dr. Nazerfard, Computer Engineering department, Amirkabir University of technology.
- Spring 2017 **Teaching Assistant**, *Advanced Programming (JAVA)*, Dr. Noorhosseini, Computer Engineering department, Amirkabir University of technology.
- Fall 2016 **Teaching Assistant**, *Operating Systems* , Dr. Taheri, Computer Engineering department, Amirkabir University of technology.
- Spring 2015 **Teaching Assistant**, *Advanced Programming (JAVA)*, Dr. Pourvatan, Computer Engineering department, Amirkabir University of technology.

Work Experience

- July 2018 – Now **Computer Vision Developer**, SAMIM GROUP CO, Tehran Province, Tehran, No47, Iranshahr St, Iran.
Design and Implementation of a Software System for License Plate Recognition in Industrial Cameras.

- March 2016 - **Mobile Application Developer**, HIRAD TECH, Advanced Technology Centre of
January 2017 Amirkabir University of Technology, Tehran, Iran.
Mobile Application Development for Home Automation.
- October 2015 **Computer Vision Developer**, MOBIN INTELLIGENT SYSTEM, Fatemi st, Tehran,
- February Iran,.
2016 Implementation of a Base Code for Vehicle Registration Plate Detection in Traffic Cameras.

Research Projects

- May 2018 - **Multi-Agent Exploration in the Gazebo Simulation Environment using Burgard Method**, Cognitive Robotics Lab.
June 2018
- October 2017 **Vehicle Registration Plate Recognition in Traffic Cameras using CNNs**, my
- April 2018 BSc thesis, Cognitive Robotics Lab.
- September **Zoom-RNN: A Novel Method for Person Recognition Using Recurrent Neural Networks**, Cognitive Robotics Lab.
2017 - March
2018
- Spring 2017 **Humanoid Robot Detection using Deep Learning: A Speed-Accuracy Trade-off**, Bio-Inspired System Design Laboratory.
- February **Humanoid Robot Localization in the Soccer Field using Particle Filter**, AUT-
2016 - May Man Humanoid Robotic Team, Bio-Inspired System Design Laboratory.
2017
- September **A High-Speed Vision System using Edge-Based Color-Aided Image Processing Algorithms for Humanoid Robots**, AUTMan Humanoid Robotic Team, Amirkabir Robotic Center.
2014 - June
2017

Professional Experience

- September **Introduction to Convolutional Neural Network**, Data Mining workshop of Amirkabir University of Technology.
2017
- May 2015 **Lecturer and member of 8th linux festival organization team**, Amirkabir University of Technology.
- May 2014 **Lecturer and member of 7th linux festival organization team**, Amirkabir University of Technology.

Languages

- Persian Native
English Moderate
Turkish Fluent
(Azeri)

Technical skills

Programming Languages C, C++, Qt, Python, Java, Matlab

Operating Systems Linux, Macintosh, Windows

Tools Expert in: Linux, ROS, Git, OpenCV
Familiar with: Docker, Caffe, Tensorflow.