

# Mohammad Javadi

## Curriculum Vitae

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### Research Interests

- Deep Learning
- Digital Image Processing
- Intelligent Robotics
- Computer Vision
- Bioinformatics

### 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 Competiotion, Leipzig, Germany.
- April 2016 **1th place** of Robocup Humanoid Teen Size League - Soccer challange  
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 challange  
International Robocup Competition, Hefei, China.
- April 2015 **1th place** of Robocup Humanoid Teen size humanoid league - Technical challange  
Iranopen Robocup Competition, Tehran, Iran.
- July 2013 **Nationwide University Entrance Exam 2013.** Ranked in the top 0.002% 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(under review).

- [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.
- [3] 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.
- [4] Sadeghnejad S, Baltes J, Ramezani S, Karimi M, **Javadi M**, Karimi M, Valaei A, Ahmadi A, Hosseinmemar A, Santos J, Poon T, Shamsirdar F, Heydari M, Azari B, Behjou S. AUT-UofM Humanoid TeenSize Team Description Paper RoboCup 2015 Humanoid TeenSize Robot League, July 2015.

## Technical Reports

- [1] **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)*

## Teaching Experience

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

March 2016– January,2017 **Mobile Application Developer**, HIRAD TECH, Advanced Technology Centre of Amirkabir University of Technology, Tehran, Iran.  
 Mobile Application Development for Home Automation

October,2015– February,2016 **Computer Vision Developer**, MOBIN INTELLIGENT SYSTEM, Fatemi st, Tehran, Iran.  
 Implementation of a Base Code for Vehicle Registration Plate Detection in Traffic Cameras

## Research Projects

- May 2018 - Current **Implementation of Burgard Exploration in ROS based Robots,,** Cognitive Robotics Lab.
- October 2017 - April 2018 **Vehicle Registration Plate Recognition in Traffic Cameras using CNNs,** my BSc Thesis, Cognitive Robotics Lab.
- September 2017 - March 2018 **Zoom-RNN: A Novel Method for Person Recognition Using Recurrent Neural Networks,** Cognitive Robotics Lab.
- Spring 2017 **Humanoid Robot Detection using Deep Learning: A Speed-Accuracy Trade-off,** Bio-Inspired System Design Laboratory.
- February 2016 - May 2017 **Implementation of Humanoid Robot Localization in the Soccer field using Particle Filter for AUTMan Humanoid Robotic Team,** Bio-Inspired System Design Laboratory.
- September 2014 - June 2017 **Implementation of a High-speed Cognition Module using Edge-based color-aided Image Processing Algorithms and Deep Learning, AUTMan Humanoid Robotic Team,** Amirkabir Robotic Center.

## Professional Experience

- September 2017 **Introduction to Convolutional Neural Network,** Data Mining Workshop of Amirkabir University of Technology.
- 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 Mother Tongue
- 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: Caffe, Tensorflow.