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 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 0.001% 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

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 - 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 - June 2018	**Multi-Agent Exploration in the Gazebo Simulation Environment using Burgard Method,** 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	**Humanoid Robot Localization in the Soccer Field using Particle Filter**, AUT-Man Humanoid Robotic Team, Bio-Inspired System Design Laboratory.
September 2014 - June 2017	**A High-Speed Vision System using Edge-Based Color-Aided Image Processing Algorithms for Humanoid Robots,** 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	Native
English	Moderate
Turkish (Azeri)	Fluent

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.