Mohammad Javadi

Curriculum Vitae

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Research Interests

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

Education

2013–2017 (expected) **B.Sc. 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] **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.

[2] 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.

[3] 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.

Technical Reports

[1] **Javadi M**, Valaee A. A High Speed Vision System for Humanoid Soccer Player Robots, August 2017.

[2] **Javadi M**, Alihosseini D. Take A Simple Look to Humanoid Robot Localization using Particle Filter, September 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)
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Teaching Experience

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 Company, 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

Research Projects

September 2017 - April 2018   **Vehicle Registration Plate Recognition using CNNs,** My bachelor thesis, Cognitive Robotics Lab.

August 2017 - September 2017	**Online Person Clustering in At-Home Robots and Videos,** Research for improvement of person clustering and re-identification, Cognitive Robotics Lab.
Spring 2017	**Humanoid Robot Detection Using Deep Learning: A Speed-Accuracy Trade-off,** Implementation of several two-stage detection systems based on various CNN's for detection of humanoid robots in soccer field and highlighting their speed-accuracy trade off, Bio-Inspired System Design Laboratory.
February 2016 - May 2017	**Humanoid Robot Localization using Particle Filter,** Implementation of Particle Filter for humanoid robot localization in soccer field, AUTMan Humanoid Robotic Team.
September 2014 , ended June 2017	**A High Speed Vision System for Humanoid Soccer Player Robots,** Implementation of a high-speed cognition module based on edge-based color-aided image processing algorithms and deep learning, AUTMan Humanoid Robotic Team.

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 (Azeri)	Fluent

Technical skills

Programming Languages	C, C++, Qt, Java, Python, Matlab
Operating Systems	Linux, Windows, Macintosh
Tools, Frameworks	Expert in: Linux, ROS, Git, OpenCV Familiar with: Caffe.