Saleh Khazaei Fadafan

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Academic Homepage, Personal Homepage

RESEARCH INTRESETS

Neural Networks
Deep Learning
Machine Learning
Computer Vision
Artificial Intelligence

EDUCATION

Bachelor of Computer Engineering — 2012 - 2016 (expected)
Amirkabir University of Technology - Tehran Polytechnic
GPA(up to now):15.26/20
Major GPA: 16.74/20
Total Passed Credits: 120 (Grades are available here.)

Diploma of Mathematics and Physics Discipline — 2012
Hashtroodi High school
GPA: 17.87/20

AWARDS & HONORS

- **3rd place**, Amirkabir 2nd Game Programming Competition, 2013
- **2nd place**, Elecit 2D Soccer Simulation Competition, 2012
- **5th place**, PNUOpen National Robotic Competition, 2D Soccer Simulation, 2011
- **3rd place**, Amirkabir 2nd International Robotic Competitions (AUTCUP), 2010
- **3rd place**, 12th Khwarizmi National Robotic Competitions, 2010
- **Participation**, PNUOpen Competitions, 3D Soccer Simulation, 2013
- **Participation**, 13th Khwarizmi National Robotic Competitions, 2D Soccer Simulation, 2011
- **Participation**, IranOpen International Robotic Competitions, 2D Soccer Simulation, 2011
- **Participation**, 12th Khwarizmi National Student Robotic Competitions, 2D Soccer Simulation, 2010
- **Participation**, IranOpen International Robotic Competitions, 2D Soccer Simulation, 2010
  (Certificates are available on my website)

RESEARCH EXPERIENCE

Convolutional Neural Networks for Image Classification
June 2015 - Present
CNN Group, Amirkabir University of Technology.
This research focuses on Human Visual System properties and applying them in Convolutional Neural Networks for Image Classification.

TEACHING EXPERIENCE

***Teaching Assistant** at Amirkabir University of Technology* — Fall 2015
Course: Operating Systems, Dr. Zarandi.

Teaching Assistant at *Amirkabir University of Technology*   Fall 2015
Course: Internet Engineering, Dr. Bakhshi.

Teaching Assistant at *Amirkabir University of Technology*   Spring 2015
Course: Advanced Programming, Dr. NoorHosseini.

Teaching Assistant at *Amirkabir University of Technology*   Fall 2014
Course: Data Structure, Dr. Dehghan.

Teaching Assistant at *Amirkabir University of Technology*   Spring 2014
Course: Principles of Computer & Programming, Mr. Pourvatan.

Teacher at *Hashtroodi High School*   Summer 2012
Course: Object Oriented Programming with C++ under Linux, Data Structures and Algorithms, RoboCup 2d soccer simulation.

ONLINE COURSES

- Convolutional Neural Networks for Visual Recognition

NOTABLE WORK EXPERIENCES

- **SE**, Implementation of a Telegram's Bot for reading users messages and finding important contexts, 2015 (Java)
- **Soccer**, Implementation of an AI for a soccer game, 2015 (Java)
- **Image Reconstruction**, Implementation of image reconstruction with triangles using Genetics algorithm, 2014 (Java)
- **Autbook**, Implementation of a Website for Amirkabir University's students to simulate their course selection, 2014 (PHP,HTML,CSS,JS)
- **EV**, Implementation of a java code to do course selection automatically, 2014 (Java)
- **Amnpardaz Software Corporation**
  Software Developer in Face recognition, Image processing and Android Programming. 2013-2014

  - **Amnpardaz Login** SuperVisor: Mr. Abdi
    I participated in the implementation of the Amnpardaz Login, which is a smart application to lock and unlock a computer by recognizing the face of the users. This application is developed for Windows platform.(C++, MFC)

  - **Eyebrow Detection** SuperVisor: Mr. Abdi
    Implementation of a matlab code to detect eyebrow. (Matlab)

- **GRCG Base**, A base code for the beginners in 2D Soccer Simulation which has been developed by the GRCG team. 2010 (C++)
  (Please refer to my website for more information & complete list of projects)

LECTURES & PRESENTATIONS

- *2D Soccer Simulation and it's problems*
  An introduction to 2D Soccer Simulation for students in Computer Lab., Amirkabir University of Technology, 2013
- *An Introduction to Haskell*
  An introduction to Haskell Programming Language for Data Structure students as Teaching Assistance, Amirkabir University of Technology, 2014
- *Linux: Working With Files, An introduction to VIM*
  An introduction to working with files in Linux for students in Operating System Lab., Amirkabir University of Technology, 2015

MEMBERSHIP

- *RESEARCH GROUP MEMBER*
  - *CNN Group*, A research group that focuses on Convolutional Neural Networks. (current)
- *EXECUTIVE COMMITTEE MEMBER*
  - *ARAIF*, Amirkabir University Artificial Intelligence Competitions (2012)
- *TEAM MEMBER*
  - *TiredBoys*, Back-end Developer at TiredBoys Group. (current)
  - *Vision++*, Member of Vision++ Team. (2013)
  - *Scorpious*, Member of Amirkabir Universitys 3D Soccer Simulation Team. (2013)
  - *Akatsuki*, Member of Akatsuki 2D Soccer Simulation team. (2012)
  - *GRCG*, Founder and Leader of GRCG 2D Soccer Simulation team. (2009-2012)

SKILLS

- *Language Proficiency*: Persian (native), English (fluent)
  - **IELTS(Academic): 7 / 9**
    Listening (7.5/9), Reading (7.5/9), Writing(6.5/9), Speaking (6.5/9)
  - **GRE(General):**
    Quantitative Reasoning (165), Verbal Reasoning (145), Analytical Writing(3.0)
- *Programming Languages*: Expert in C, C++, Java, Familiar with Python, Matlab, VHDL, Assembly (AVR), Haskell
- *Operating Systems*: Expert in MS-Windows, GNU Linux (Ubuntu, Fedora)
- *Web Development*: HTML, CSS, JavaScript, JQuery, PHP, AJAX, MySQL, XML, HTML5
- *Engineering Tools*: Matlab, Proteus, CodeVision AVR, PSpice, HSpice
- *Typesetting*: Microsoft Word, Vim, LATEX
- *Miscellaneous*: NetBeans, Eclipse, Visual Studio, Git

REFRENCES

- Dr. HamidReza Zarandi
  Email: h_zarandi@aut.ac.ir
  Homepage: `http://www.aut.ac.ir/h_zarandi`

- Dr. Bahador Bakhshi
  Email: bbakhshi@aut.ac.ir
  Homepage:`http://ceit.aut.ac.ir/~bakhshis/`

- Dr. Majid Noorhosseini
  Email: majidnh@aut.ac.ir

- Dr. Mahdi Dehghan TakhtFooladi
  Email: dehghan@aut.ac.ir
  Homepage:`http://ceit.aut.ac.ir/~dehghan/`

- Mr. Bahman Poorvatan
  Email: pourvatb@aut.ac.ir

Official certificates and documents are available upon request.