

Curriculum Vitae

Sajjad Mozaffari

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**CURRENT
RESEARCH
INTERESTS** Machine Learning
Deep Learning
Artificial Intelligence
Computer Vision

EDUCATION

M.Sc. in Electrical Engineering(ECE)-Control System 2015- Present
University of Tehran
GPA(current): 17.92/20
Selected Course:

- Pattern Recognition: 19.5/20
- Neural Network: 20/20
- Special Topics in Pattern Recognition: 20/20

B.Sc. in Electrical Engineering(ECE)-Control System 2011-2015
GPA: 18.02/20

**AWARDS &
HONORS**

Won 1st & 2nd prize in 2nd & 3rd National Digital System Design Contest 2015-2016
FPGA Challenge Section
Contest of implemented A.I. agents in board games on FPGA.

Ranked in top 10% exceptional students of Electrical Engineering 2014
University of Tehran

Ranked in top 2% in "Nationwide University Entrance Exam" 2011
In mathematics & physics, among near 290,000 participants

**SELECTED
RESEARCH &
PROJECTS**

Master's Thesis: "**Trajectory prediction in crowded spaces using deep networks.**" In Progress
Supervisor: Prof. Babak N. Araabi

Char-Level Language Modeling of Divan Hafez 2017
A Persian poem generator model

Bachelor's Thesis: "**Design, implementation and Control of Rotary Series Elastic Actuator (RSEA)**" 2015
Supervisor: Prof. Majid Nili Ahmadabadi

Design and implementation of different board games solvers on FPGA 2014-2015
Using "Alpha-beta Pruning Minimax" and "Monte Carlo TS" algorithms
Presented in local and international conferences and contests

**SELECTED
TEACHING
EXPERIENCE**

Chief Teaching Assistant for "**Pattern Recognition**" course Fall 2017
Instructor: Prof. Babak N. Araabi

- Taught python & scikit-learn
- Headed TA-team in designing the assignments

Instructor for "**Deep Learning Fall Workshop**" Fall 2017
University of Tehran

- Taught how to implement deep model in TensorFlow/Keras

Instructor for "**Deep Learning Summer School**" Summer 2017
University of Tehran

- Taught basics of deep learning and RNN models

Chief Teaching Assistant for "Neural Network & Deep Learning" Fall 2016
Instructor: Dr. Ahmad Kalhor

- Design and evaluate final project.
- Design and evaluate assignments.

PUBLICATIONS

S. Mozaffari, E. Rekabi, R. Nasiri, and M. N. Ahmadabadi, "**Design & Modeling of A Novel Multi-Functional Elastic Actuator (MFEA)**," in Robotics and Mechatronics (ICROM), 2016 4th RSI International Conference on, 2016. 2016

S. Mozaffari, B. Azizian, M. H. Shadmehr, "**Highly Efficient Alpha-Beta Pruning Minimax Based Loop Trax Solver on FPGA**," *Computer Architecture and Digital Systems (CADS)*, 2015 18th CSI International Symposium on, vol., no., pp.1-4, 7-8 Oct. 2015 2015

E. Qasemi, A. Samadi, M. H. Shadmehr, B. Azizian, **S. Mozaffari**, A. Shirian, B. Alizade, "**Highly scalable, shared-memory, Monte-Carlo tree search based Blokus Duo Solver on FPGA**," *Field-Programmable Technology (FPT), 2014 International Conference on*, vol., no., pp.370,373, 10-12 Dec. 2014 2014

WORK EXPERIENCE

Senior Member of Technical Staff 2015
Tirax Co.
www.tirax.ir

- Designing and implementing different medical beauty devices in an Iranian startup

Documenting Electronic Circuit Design and Simulation Tools 2013
"ICEEP" group, University of Tehran
CAD lab, old building, Electrical Department of University of Tehran

SELECTED COMPUTER SKILLS

Programming Language:

- C/C++
- Python
- HTML

Engineering Software/Package:

- TensorFlow & Keras
- NumPy & Scikit-Learn
- Torch/PyTorch
- Matlab & Simulink

LANGUAGES

English: TOEFL-iBT(2017):105 (Reading:29,Listening:27,Speaking:22,Writing:27)

Persian: Mother tongue

Arabic: Familiar