

Curriculum Vitae

Amir Shirian

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CURRENT RESEARCH INTERESTS

Machine learning
Deep learning
Neural network
Computer vision
Graph learning
Graph neural network

EDUCATION

University of Warwick PhD in Computer Science Research with Tanaya Guha Thesis: Multi-modal emotion recognition with graph neural networks	2019-
University of Tehran M.Sc. in Electrical Engineering(ECE)-Control System GPA:17.13/20 Selected Course: <ul style="list-style-type: none">Pattern Recognition: 19.5/20Special Topics in Pattern Recognition: 19.5/20 Research with Prof. B.N.Araabi and Dr. A.Kalhor Thesis: Time Series Prediction via Convolutional Neural Network	2015-2018
University of Tehran B.S. in Electrical Engineering(ECE)-Control System GPA:17.01/20 Research with Dr. Fariba Bahrami	2011–2015
Shahid Beheshti (Sampad) High School, Shahrekord Pre-University Diploma in Mathematics & Physics GPA:18.55/20	2010– 2011
Shahid Beheshti (Sampad) High School, Shahrekord High School Diploma in Mathematics & Physics GPA:18.16/20	2008– 2010

AWARDS & HONORS

Ranked 65 th among approximately 10,000 participants in nationwide university entrance exam in B.S. in Electrical Engineering – Control	2015
Ranked in top 10% exceptional students of Electrical Engineering University of Tehran	2014
Ranked in top 2% in “Nationwide University Entrance Exam” In mathematics & physics, among near 290,000 participants	2011

SELECTED RESEARCH & PROJECTS

Design a graph link prediction model for emotion classification Supervisor: Dr. T.Guha	In progress
Design and Implement joint learning Graph-CNN for facial expression recognition Supervisor: Dr. T.Guha	2019

Design and Implement of Recommender System in Fashion Based on Generative Adversarial Networks Supervisor: Dr. A.Kalhor	2018
Master's Thesis: "Time Series Prediction via Convolutional Neural Network" Supervisor: Prof. Babak N. Araabi and Dr. A.Kalhor	2017
Design and Implement of 3D Foot Scanner Supervisor: Dr. A.Mahnama	2016-2017
Modeling and Implementation of System for Calibration of Gyro MEMS Sensors Based on ARM Microcontroller	2017
Sequence-to-Sequence Learning A English to Persian version	2016
Implementation of "Exactly linearizing adaptive control of propofol and remifentanil using a reduced Wiener model for the depth of anesthesia" in 2011 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC) Supervisor: Dr. Fariba Bahrami	2014
Design and implementation of "Blokus Duo" solver on FPGA Presented in International Conference of Field-Programmable Technology(ICFPT) 2014, Shanghai Supervisor: Dr. Bijan Alizadeh	2014
Design and implementation of "Half-Bridge DC-DC converter" Course: Industrial Electronics Supervisor: Dr. Hossein Imaneini	2014
Design and implementation of PID controller on "2 Tank System" Course: Instrumentation Supervisor: Dr. Moosa Ayati	2013
Design and implementation of temprature measurment Course: Microprocessor Supervisor: Dr. Omid Fatemi	2013

PUBLICATIONS	A.Shirian, T.Guha, "Joint Graph Learning and Classification for Facial Emotion Recognition", Ready to submit for CVPR 2020.	2019
	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," <i>Field-Programmable Technology (FPT), 2014 International Conference on</i> , vol., no., pp.370,373, 10-12 Dec. 2014	2014

TEACHING EXPERIENCE	Chief Teaching Assistant for "Neural Network & Deep Learning" Instructor: Dr. Ahmad Kalhor Design and evaluate final project and assignments.	2017
	Teaching Assistant for " Pattern Recognition " course Instructor: Prof. Babak N. Araabi	2016
	Teaching Assistant for " Modern Control " course Instructor: Dr. Ali Khaki Sedigh Collaborated on project development, assist in designing homeworks.	2015
	Teaching Assistant for " Filter and Circuit Synthesis" course Instructor: Dr. Samad Sheikhaei Collaborated on project development, assist in designing homeworks.	2015
	Teaching Assistant for " Microprocessor" course Instructor: Dr. Omid Fatemi Collaborated on project development, assist in designing homeworks and midterm and final exam.	2015
	Grading Assistant for " Electromagnetics " course Instructor: Dr. Mahmood Mohamad Taheri Assist in homeworks grading	2014
	Grading Assistant for " Engineering Mathematics " course Instructor: Dr. Mahmood Mohamad Taheri Assist in homeworks grading	2013

WORK EXPERIENCE	Senior Member of Technical Stuff Aramed Co. www.aramedhealth.com <ul style="list-style-type: none">Designing and implementing 3D foot Scanner	2017
	Head Member of R&D Group of Soha Co. www.sohasys.ir <ul style="list-style-type: none">Managing five membersDesigning and implementing home automation systems based on IOTDesigning and implementing Smart Passport ReaderTraining of new members	2016-2017
	Senior Member of Technical Stuff Tirax Co. www.mersateb.com <ul style="list-style-type: none">Designing and implementing different medical beauty devices in an Iranian startup	2015
	Documenting Electronic Circuit Design and Simulation Tools CAD lab, old building, Electrical Department of University of Tehran	2013

COMPUTER SKILLS	Programming Language:
	<ul style="list-style-type: none"> C/C ++ Python Verilog/SystemVerilog

- Assembly
- HTML

Engineering Software:

- TensorFlow & Keras
- NumPy & Scikit-Learn
- Torch/PyTorch
- OpenCV
- ModelSim
- Quartus
- CodeVision
- Matlab & Simulink
- Proteus
- Altium Designer
- MultiSim

LANGUAGE	Persian(Native), English-good, Arabic-basic
	TOEFL-iBT: 104
REFERENCES	Available upon request