Curriculum Vitae

Amir Shirian   Email: amirdonte15@gmail.com

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GitHub   Personal webpage

EDUCATION		
	University of Warwick PhD in Computer Science Thesis topic: Multi-modal emotion recognition with graph neural networks	2019-Present
	University of Tehran M.Sc. in Electrical Engineering(ECE)-Control System GPA:17.13/20 Selected Course: • Pattern Recognition: 19.5/20 • Special Topics in Pattern Recognition: 19.5/20 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	2011–2015

AWARDS & HONORS		
	Warwick Computer Science PhD students scholarship	2019
	Ranked 65th 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

PUBLICATIONS		
	Shirian, Amir, Subarna Tripathi, and Tanaya Guha. "Dynamic Emotion Modeling with Learnable Graphs and Graph Inception Network." Accepted at IEEE Transaction on Multimedia. IEEE link. arXiv link	2020
	Shirian, Amir, and Tanaya Guha. "Compact Graph Architecture for Speech Emotion Recognition." Accepted at ICASSP 2021. arXiv link	2020
	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

PAST PROJECTS		
	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 for Foot Orthosis with 1mm Accuracy Supervisor: Dr. A.Mahnama	2016-2017
	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

TEACHING EXPERIENCE	**Teaching Assistant for "Machine Learning"** Instructor: Dr. Victor Sanchez	2020
	"Teaching Assistant for " Digital Forensics" Instructor: Dr. Tanaya Guha	2019
	Chief Teaching Assistant for "Neural Network & Deep Learning" Instructor: Dr. Ahmad Kalhor Design and evaluate final project and assignments.	2018
	Teaching Assistant for " Pattern Recognition " course Instructor: Prof. Babak N. Araabi	2017

WORK EXPERIENCE	Machine learning Engineer Intel AI lab Designing Learnable Graph Inception Network for Emotion Recognition with supervision of Subarna Tripathi	2020
	Machine learning Engineer Aramed Co. www.aramedhealth.com Designing and implementing 3D foot Scanner to make foot orthosis for people with foot deficiencies	2018
	Head Member of R&D Group of Soha Co. www.sohasys.ir - Managing five members - Designing and implementing home automation systems based on IOT - Designing and implementing Smart Passport Reader based on OCR - Training of new members	2016-2017
	Senior Member of Technical Stuff Tirax Co. www.mersateb.com 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:** Python (TensorFlow & Keras, NumPy & Scikit-Learn, Torch/PyTorch, OpenCV), C/C ++, Verilog/SystemVerilog , Assembly, HTML