CV-Hadi Rohani

Contact

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Information

Canada

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Summary of Intelligent systems and smart grid, Decentralized optimization and control, Industry Qualifications 1.0, Distributed Automation, Machine Learning, Software and embedded systems programming.

EDUCATION

• M.Sc. in Electrical & Computer Engineering, GPA: A University of Alberta, Edmonton, Canada

2016 - 2019

Work Experiences Researcher at Sustainable Computing Lithuim-Air Battery Modeling for Electric Vehicles

Sept. 2015-present

R&D on Power Electronics:

• "Six-Pulse Three-Phase Inverter"

Apr.—June 2012

Advisor: Dr. Ghanbari

 Working with Working with the modular "MC3PHAS" Switching Control Module for Three-phase Inverter Apr.—June 2012

Awards

Academic Awards

- Exempt from M.S. University Entrance Exam as an exceptional talent student (Given only to the Top 10%), Shiraz University Sept. 2013
- Admission for M.S. Study at the School of Electrical Engineering, Iran University of Science & Technology, Tehran, Iran Sept. 2013
- Alumni Association Best Student Award (1st Place Among Students of Power and Control Engineering Dept.)

 July 2013
- Achieved 2nd rank of GPA Among Electrical & Power B.S. Students Sept. 2013
- Achieved 2nd rank of GPA Among Electrical & Power M.S. Students Dec. 2014

Working with micro-controllers (AVR, ARM-7)

Apr.-Sept. 2010

RESEARCH EXPERIENCES Research Assistant

 Modeling and Simulation of a Saturated Transformer under Over Loaded Conditions
 Sep-Nov 2012

Advisor: Dr. Allah Bakhshi

• Technical Report and Research on High Power Equipments and Insulators, Regulations and Security Alerts for High Power Laboratory Sep-Nov 2012

Advisor: Dr. Allah Bakhshi

Granter: Department of Power & Control Engineering, Shiraz University

• Optimum Siting and Placement of Transmission Line Towers Using PLS-CADD Sept 2012

	 Advisor: Dr. Mohammadi Simulation of PT and CT Protection Transformers Taking the Saturation Model Using PSCAD/EMTDC 	Into Account Aug 2013
	 Advisor: Dr. Samet Lightnings Transient Analysis on Wind Turbine Towers Simulation Advisor: Dr. Mohammadi 	EMTP Type Jul – Aug 2014
	• "Small Signal Modeling and Simulation of a Complete Machine Generator" Advisor: Dr. Raoofat	Synchronous Jul – Aug 2014
	• Power Quality Events Classification in Power Systems	Jul – Aug 2014
	 Advisor: Dr. Farjah Probabilistic Load Flow Using Wavelet Density Estimations Advisor: Dr. Mohammadi Oct 2014 – Present Backward/Forward Probabilistic Load Flow in Distribution Networks 	
	Using Non-parametric Techniques Advisor: Dr. Mohammadi Oct	2014 – Present
English Proficiency	TOEFL-iBT Total Score: 98	Oct. 18 2014
	Reading: 23 Listening: 27 Speaking: 24 Writing: 24 GRE Verbal Reasoning: 149 (41%) Quantitative Reasoning: 159 (74 %) Analytical Writing: 3.5 (38%)	Dec. 20 2014
TEACHING EXPERIENCES	1. "Electrical Machinery II Laboratory", Lab Instructor	Spring 2014
	2. "Electrical Machinery I Laboratory", Lab Instructor Fall 2013, Spring 2014	
	3. "Power Systems Analysis II", Teaching Assistant	Fall 2013
	4. "Electric Machines II", Teaching Assistant	Spring 2013
	5. "Power Systems Analysis I", Teaching Assistant	Spring 2013
	6. "Engineering Mathematics", Teaching Assistant	Spring 2012
Presentations		
I RESENTATIONS	1. "Introduction to DigSILENT Power Factory", Workshop Presenter	Spring 2013
	2. "Advanced Applications of MATLAB", Workshop Presente	r Spring 2014
	3. "Introduction to MATLAB", Workshop Presenter	Winter 2014
	4. "Special Machines", Course Presentation	Spring 2013

Advisor: Dr. Mohammadi

- 5. "Power Plant and Electrical Sources", Course Presentation Spring 2013
- 6. "Power Systems Networks, Conventional, Modern, and Future", Chalk-Talk Presentation Fall 2014

Professional Membership • *IEEE* Student Member

Jan. 2012 - Present

• NSSOEE Special Member, Member Number: 901027

2011 & 2012

Computer Skills Programming Languages: C^{++} , Python, HTML

Computer Software: MATLAB & Simulink, MATPOWER, PSAT, SimPowerSystem, GUI, MATLAB Runtime Compiler, DigSILENT, PSCAD/EMTDC, PLS-CADD, Advanced EMTP-RV, GAMS, Proteus, CodeVision(AVR), Neplan, Multisim, Pspice,

Ecotect