

Atousa Yazdani, PhD

6000 J st, Sacramento, CA 95819

(916) 278-4964

atousa.yazdani@csus.edu

PART 1: Background

EDUCATION

DEGREE	INSTITUTION	DATE
Ph.D. Electrical Engineering	Missouri University of Science & Technology	May 2009
M.S. Electrical Engineering	Tehran Polytechnics University , Iran	Oct 2001
B.S. Electrical Engineering	Tehran University , Iran	Jul 1997

ACADEMIC APPOINTMENTS (full-time, tenure track)

APPOINTMENT	INSTITUTION/COLLEGE/DEPARTMENT	DATES
Assistant Professor	Department of Electrical & Electronic Engineering California State University, Sacramento	Aug. 2015 - current

INDUSTRY EXPERIENCE

POSITION	COMPANY	DATES
Electrical Engineer	Parsian Co, Farab Co and Nargan Co, Iran	1998-2004
Advisor	Quanta Technology, LLC	2009-2014
Senior Power System Engineer	ZGLOBAL, Folsom CA	2014-2015

PROFESSIONAL REGISTRATION, LICENSURE, AND CERTIFICATION

LICENSE/CERTIFICATION	ISSUING ORGANIZATION	DATE ISSUED
Senior Member	IEEE	July 2012

PART 2: Teaching and Advising

RECORD of INSTRUCTION

COURSE NAME (grad or undergrad)	INSTITUTION	#TIME TAUGHT
EEE 130:ElectromechanicalConversion(undergrad)	CSUS	14
EEE 144:Electric Power Distribution (undergrad)	CSUS	6
EEE 196C: Aps of PWR Elect. in PWR (undergrad)	CSUS	2
EEE 143:Power System Laboratory (undergrad)	CSUS	1
EEE 252:PowerSystemReliability&Planning (Grad)	CSUS	1
EEE 117L:NetworksAnalysisLaboratory(undergrad)	CSUS	1

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COURSES or LABORATORY ASSIGNMENTS (DEVELOPED or INTRODUCED)

RUBRIC & COURSE NAME or LAB TITLE		BRIEF COMMENT
1	EEE 196 C – Applications of Power Electronics in Power Systems (UNDERGRAD)	Introduced a new undergraduate course. Taught two times (fall 2017 and Spring 2018). Typically 20 – 30 students. Refer to supporting materials for additional information.
2	EEE 196 CL – Applications of Power Electronics in Power Systems Laboratory (UNDERGRAD)	Developed further an undergraduate lab for the above mentioned course. Manual developed. Refer to supporting materials for additional information.
3	EEE 296 C – Applications of Transients in Power Systems(GRAD)	Developed graduate course. Manual developed. Refer to supporting material.

INDEPENDENT STUDENT / SPECIAL PROJECT COURSES

RUBRIC & COURSE NAME or LAB TITLE		BRIEF COMMENT
1	EEE 299: Independent Study, Spring 2018 (in progress)	Guided a student. Tested a device (solar gen) and provided extra simulations
2	EEE 299: Independent Study, Spring 2016	Guided a student to solve an industry problem related to changing wiring.

M.S. THESES/PROJECTS ADVISED

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Student Name	Title	Role	Date Finished
Adedamola Ilori	SOLAR POWER GENERATION LAB LABORATORY EXPERIMENTS FOR PV CELL SOLAR GENERATION	First Reader	2018
Nzerem Emmanuel	Experimenting Conservation Voltage Reduction Using PSCAD	First Reader	2017
Arthur Mendizabal	ARC FLASH ANALYSIS TO REDUCE INCIDENT ENERGY USING SEL 751 ON MAIN AND FEEDER LOW VOLTAGE POWER CIRCUIT BREAKERS	First Reader	2017
Jie Yang	CONSERVATION VOLTAGE REDUCTION IN A DYNAMIC LOADS SYSTEM	First Reader	2017
Jinqi Li	Dynamic Service Restoration of Distribution Systems Based on Load Curves	First Reader	2017
Hongliang Liu		First Reader	2017

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Yiwen Jiang	WIND GENERATION - DYNAMIC ANALYSIS AND IMPACT ASSESSMENT	First Reader	2017
Yu Hao	COORDINATED CHARGING METHODS OF ELECTRIC VEHICLES	First Reader	2017
Harpreet Kang	ENHANCEMENT OF POWER SYSTEM STABILITY WITH VSC- HVDC TRANSMISSION	First Reader	2016
Jonathan Robinson	ASSESSING THE IMPACT OF DISTRIBUTED GENERATION ON FEEDER PROTECTION	First Reader	2016

PART 3: Scholarship

PEER-REVIEWED PUBLICATIONS (journal, conference proceedings, books, book chapters)

Publication
1- Yu Hao, Atousa Yazdani and Mahyar Zarghami, "Optimized and Coordinated Charging Methods for Electric Vehicles Cost", 2019 North American Power Symposium (NAPS)
2- Yazdani, A. 2018. Modern Distribution Systems with PSCAD Analysis. Taylor & Francis Group: CRC Press.
3- S. Wang, J. Li and Atousa Yazdani, "An Approach to Distribution Systems Dynamic Service Restoration Utilizing Load Curves", IEEE EPEC18 conference Oct. 2018.
4- H. Liu, K. Ganesan, M. Zarghami, A. Yazdani, R. Nuqui, "Real-Time Dynamic Voltage Stability Assessment Through a Wide-Area Loss Index", IEEE EPEC18 conference Oct. 2018.
5- Atousa Yazdani and M. Zarghami, "Frequency dependent line modeling and equipment sizing for a transmission level wind farm integration, 2017 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)
6- H. S. Kang ; A. Yazdani, "Enhancement of power system stability with VSC-HVDC transmission", 2016 North American Power Symposium (NAPS)
7- Yazdani, A., Crow, M.L., Guo, J., "A Comparison of Linear and Nonlinear STATCOM Control for Power Quality Enhancement" Power and Energy Society General Meeting, 20-24 July 2008, pp. 1-6.
8- Yazdani, A., Crow, M.L., "An Improved Nonlinear STATCOM Control for Electric Arc Furnace Voltage Flicker Mitigation" IEEE Trans. on Power Delivery, Jun. 2009.
9- Yazdani, A., Crow, M.L., "Fault Detection and Mitigation in Multilevel Converter STATCOMs", IEEE Transactions on Industrial Electronics, Jun 2010.
10- Yazdani, A., Sepahvand H., Crow, M.L. and Ferdowsi M., "Application of StatCom for Electric Arc Furnace Distortions Alleviation" In Draft Form, to be submitted to IEEE Trans. on Power Systems.
11- Farid Katiraei, Atousa Yazdani, et al, "Voltage Regulation and Reactive Power Supply of Distributed Generation for Applications in Active Distribution Systems" CIGRE Canada 2010.
12- Teleke, S., Yazdani, A.; Gudimetla, B. ; Enslin, J. ; Castaneda, J, "Application of STATCOM for Power Quality Improvement" Power System Conference and Exposition, PSCE 2011.
13- A. Yazdani, J. Holbach, F. Katiraei, "RTDS (Real Time Digital Simulator) Testing on Aurora Event Hardware Mitigating Devices" QT eNews, 2011
14- A. Yazdani and M. Marshall, "Wind Generation, the Study and Analysis of Dynamic Behavior Impacts on Transmission System", QT eNews, 2012.

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15- Atousa Yazdani, and Farid Katiraei, "Control and Monitoring Requirements for Distribution Systems with High Penetration of Renewable Energy Sources" IEEE Smart Grid Innovation conference 2012.

16- Atousa Yazdani, Yi Hu, A. Johnson (SCE), D. Martinez (SCE), "Development of Smart Grid Ideas –What needs enhancement?", Published on T&D show special edition 2012.

17- A. M. Ranjbar, S. M. Marjanmehr, A.Yazdani and S. Mohammad Sadegh, "A Neural Network to Estimate the Operational Time of Over-Current Relays", 12th International Power System Conference (PSC 1997), 3-5 November 1997, Tehran, IRAN.

18- A. Yazdani, G. B. Gharehpetian, S. M. Kouhsari, "Using Optimal Power Flow Concept for PST Allocation and Regulation to Minimize Real Power Losses", 16th International Power System Conference (PSC 2001), 22-24 October 2001, Tehran, IRAN.

19- A. Yazdani, G. B. Gharehpetian, S. M. Kouhsari, "A New Approach for PST Adjustment and Allocation in Power Transmission Networks" IFAC Conference held on Korea Sep. 2003.

20- Vaziri, M. ; Afzal, M. ; Zarghami, M. ; Yazdani, A. ; Vadhva, S. ; Tavatli, F., "Voltage Impacts of DG on Distribution Grid with Voltage Regulators and SVCs", Green Technologies Conference, 2013 IEEE , Publication Year: 2013 , Page(s): 322 – 329.

PROFESSIONAL REPORTS, SOFTWARE, PATENTS

#	Presentation	Description
1	B. Mather, B. Kroposki, NREL, R. Neal, SCE, F. Katiraei, A. Yazdani, Quanta Technology, Southern California Edison High-Penetration Photovoltaic Project – Year 1, June 2011	Available online
2	A. Yazdani, <i>et. al</i> , "WIND STORAGE ENHANCED TRANSMISSION RESEARCH AND DEVELOPMENT", California Energy Commission and Southern California Edison and Quanta Technology	Available online
3	Piezoelectric Energy Harvesting System from Moving Vehicles 2018.	Patented

PROPOSALS FOR SUBMITTED EXTERNAL FUNDING (via Office of Research Affairs)

#	Amount	Description
1	\$ 94966.00	Ultra-High Power Density Roadway Piezoelectric Energy Harvesting System (CEC and UCMerced) (Awarded)
2	\$ 400,000.00	Smart Charging for Electric Vehicles to CEC (2016) (Not Awarded)

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3	\$ 2500.00	Faculty Research Incentive Grant (FRIG) to UEI (Awarded) 2018
4	\$ 5000.00	Campus Grant Program 2019 (Awarded)
5	\$ 522,994.00	Co-PI in a proposal to NSF EPCN program (In Process)

PART 4: Service

UNIVERSITY SERVICE

#	Committees, Task forces, Special Assignments, Participation, etc.	Dates
	Faculty advocate for joint doctorate program with UCD	Spring 2019 - current
	Fundraising with SMUD to Renovate and Refurnish Power Lab	Fall 2017 - current
	College scholarship Committee 2016 - current	Spring 2016 - current
	College Representative in Academic Council	Fall 2015 – Spring 2019
	Assessment Committee Chair	Fall 2018 - current
	Night with Industry	2015 – current
	Faculty Reviewer for the 2018-19 RCA award	Spring 2017, Spring 2018, and Spring 2019
	IEEE Paper review	Fall 2009 - current
	Chaired an IEEE conference session at NAPS	Fall 2016
	Faculty Representative to the Compliance Committee	Spring 2018 – Spring 2020
	Korematsu elementary website development	Summer 2015
	Korematsu elementary school site council	2015 - 2017
	Avicenna Academy website development	2018

PART 5: Summary of Qualifications

Refer to the attached documents related to teaching, research and service.