Dr. Amru Masoud Alqurashi

Assistant Professor

Personal Data

Nationality: | Saudi Year of Birth | 1985

Department | Mechanical and Energy Engineering Department

Official IAU Email: aalqurashi@iau.edu.sa

Mobile No. | 0500322221

Language Proficiency

Language	Read	Write	Speak
Arabic	✓	✓	✓
English	✓	✓	√

Academic Qualifications

Date	Academic Degree	Place of Issue	Address
2014-2017	Ph.D-Electrical Engineering	George	Washington DC,
		Washington	USA
		University	
2012-2014	M.S., Electrical Engineering on	George	Washington DC,
	Electrical Power and Energy	Washington	USA
	(GPA: 3.88/4) Excellent	University	
2003-2008	B.S., Electrical Engineering	Umm Al-Qura	Makkah,
	(GPA: 3.58/4) Excellent	University	Saudi Arabia

PhD Research Title:

PhD	Model Predictive Control Approach to Two-Stage Stochastic Power System
	Optimization Problems

Professional Record:

Job Rank		Place and Address of Work		Date
Consultant	SDAIA	Saudi Authority for Data and Artificial Intelligence	KSA	Jan. 2021 Present
Assistant Professor	IAU	College of Engineering	KSA	Aug. 2019- Present
Instructor	Mawhiba	King Abdulaziz & His Companions Foundations For Giftedness and creativity	KSA	Summer 2020
Assistant Professor	Taif University	College of Engineering	KSA	Sep 2017 - Aug 2019
Grader	George Washington University	School of Engineering and Applied Science	USA	Jan 2017 - May 2017
Lecturer	Taif University	College of Engineering	KSA	Dec. 2014- Sep 2017
Teaching Assistant,	Taif University	College of Engineering	KSA	Jan. 2010- Dec. 2014
Engineer	Marafiq	Power and water utility company for the cities of Jubail and Yanbu	KSA	Sep 2008 - May 2009
Trainee	AL-Zahri Company	AL-Zahri Company under government supervision.	KSA	Summer 2007
Trainee	SEC	Saudi Electricity Company	KSA	Summer 2006

Scientific Achievements

Published Refereed Scientific Researches

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	A. Alqurashi, A. H Etemadi, A. Khodaei,	Treatment of uncertainty for next generation power	Electric Power Systems Research Journal, 2016
2	A. Alqurashi	Model Predictive Control Approach to Two-Stage Stochastic Power System Optimization Problems	Dissertation, 2017.
3	A. Alqurashi, A. H Etemadi, A. Khodaei,	Model Predictive Control to Two-Stage Stochastic	control engineering practice Journal,2017.

		Dynamic Economic Dispatch Problem	
4	A. Alqurashi	Economic and Environmental Impacts of Distributed Energy	Journal of Clean Energy Technologies, Accepted
		Resources	1 tominorogitos, 1 toto prod
5	A. Alqurashi	The State of the Art in Model	Journal of Sustainable
		Predictive Control	Development of Energy,
		application for Demand Side	Water and Environment
		Energy Management	Systems, Submitted
6	Nasir Harir, Muhammad	Development, Testing, and	Advance in Mechanical
	Saleem, Amru Alqurashi,	Performance Evaluation of a	Engineering Journal, Submitted
	Fahad Al-Amri	Low-Cost Pressure-Control	
		Respirator Device for	
		Treatment of Early	
		Symptoms of COVID-19	
		Patients	
7	A.Babqi1, B.Alamri,	A Virtual Inertia Based	Energies Journal, Submitted.
	Y.Alharbi, A. Alqurashi ,	Predictive Control for	
	Nasim Ullah,	Stability Improvement of	
		Small Scale Multiple DGs	
		Microgrids	
8	Nasir Harir, A. Alqurashi	A Comprehensive	Energies Journal, in
		Comparison Between Fixed	progress.
		and Tracking PV Panels in	
		Saudi Arabia	

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	The 8th International Conference on Control, Mechatronics and Automation	Moscow, Russia on November 6-8, 2020.	Presentation

Membership of Scientific and Professional Societies and Organizations

- Reviewer for IEEE Access Journal
- Reviewer for International Journal of Electrical Power and Energy.
- Reviewer for Conference on Control, Mechatronics and Automation.
- Instructor at King Abdulaziz & His Companions Foundations for Giftedness and creativity (Mawhiba)

Teaching Activities

Undergraduate (at Imam Abdulrahman Bin Faisal university)

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Energy Markets	ENRG 506	lectures
2	Solar Power System Design	ENRG 557	lectures
3	Electric Circuits	ENG 331	lectures
4	Energy and Environment	ENRG 412	lectures
5	Control System	ENRG 405	lectures
6	Renewable Energy	ENRG 403	lectures
7	Project Management and Schedule	ENRG 505	lectures
8	Workshop Practice	ENRG 307	lectures

Undergraduate (at Taif university)

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Basic of Electrical Circuit	8032101	lectures
2	Electric Circuit 1	8032201	lectures
3	Introduction to computer programming	802201	lectures
4	Electromechanical Energy Conversion	8033201	lectures
5	Electrical Power System 1	8034101	lectures
6	Renewable Energy	8035201	lectures
8	Electrical Installations	8034201	lectures
9	Digital Logic Design	8033102	lectures

Postgraduate (at George Washington University)

#	Course/Rotation Title	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Power Electronics	Grader
2	Control System	Grader

Administrative Responsibilities, Committee and Community Service Administrative Responsibilities

#	From	To	Position	Organization
1	Aug 2020	Till date	Chair of the Software committee	Mechanical and Energy Engineering Department, IAU
2	Jan 2020	Till date	Assisting in evaluation of potential applicants interested in joining the department and arranging their interviews	Mechanical and Energy Engineering Department, IAU
3	Oct 2019	Mar 2020	Chair of the committee on invitation for the 3rd Solar and Wind Energy Symposium	Mechanical and Energy Engineering Department, IAU
4	2019	2019	A team member of organizing students site visit to ACWA power plant	Mechanical and Energy Engineering Department, IAU

Committee Membership

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#	From	To	Position	Organization	
1	Oct 2020	Till date	Member at Summer training committee in CoE	College of Engineering, IAU	
2	Jan 2020	Till date	Member at Summer training committee in the department	Mechanical and Energy Engineering Department, IAU	
3	Jan	Till date	Member at Master program committee	Mechanical and Energy Engineering Department, IAU	
4	Jan 2020	Till date	Member at Directed research project committee	Mechanical and Energy Engineering Department, IAU	
5	Jan 2020	Till date	Member at Evaluation of final Year design project committee	Mechanical and Energy Engineering Department, IAU	
6	2019	2019	Member at Preparation Committee for the Visit of HE Minister of Education to CoE, IAU	College of Engineering, IAU	
7	Sep 2019	Sep 2020	Team member of installing solar PV system at the parking lots project at IAU	Mechanical and Energy Engineering Department, IAU	
8	Oct 2017	May 2019	senior design project committee	Taif University	
9	Oct 2017	May 2019	Preparation Committee for ABET accreditation	Taif University	

Certifications

#	Course
1	Instrumentation and Process Control.
2	Electrical Safety and Application.
3	UPS and Battery Chargers.
4	Generator Operation and Maintenance.
5	Time Management.
6	Control Loops and Logic Diagram.
7	International Computer Driving License holder (ICDL).
8	Language Academy at ELS, Berkeley, CA.
9	Language Academy at University of Southern, Los Angeles, CA.

Engineering Software Programs

#	Program
1	Matlab.
2	General Algebraic Modeling System (GAMS).
3	Power System Computer Aided Design (PSCAD).
4	Simulation Program with Integrated Circuit Emphasis (SPICE).
5	Thinkercad.
6	Circuitverse.
7	PV System Photovoltaic software (PVsyst).
8	HelioScope.
9	Distributed Energy Resources Costumer Adoption Model (DER-CAM).

Platform for Online Teaching

#	Platform
1	Blackboard
2	QuestionMark
3	Zoom
4	Classera
5	WiziQ
6	Microsoft team
7	Webex

Last Update 1/1/2021