

Dr. Mohammed A. AlAqil

Assistant Professor



Personal Data:

Nationality | Saudi
Date of Hire | 2013
Date Rank Obtained | January 2021
Department | Electrical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Engineering	Electrical Power Systems	University of Manchester	Manchester, UK	January 2021
Masters (M.Sc.)	Electrical Engineering	Electrical Power Systems	University of Manchester	Manchester, UK	October 2015
Bachelor (B.Sc.)	Electrical Engineering	Electrical Power	Universiti Tenaga Nasional	Malaysia	November 2012

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Increasing Overhead Line Power Transfer Capacity by Optimising conductor Electro-Mechanical Performance
Master	Evaluating the Impact of Conductor Vibrations on Overhead Line Structures

Experiences:

Title of Job	Address of Work	Country	Date	
Industrial Relations Committee, Chair	King Faisal University, College of Engineering	KSA	From	2021
			To	Present
Corresponding Member, Chapter Leader	The International Council on Large Electric Systems (CIGRE), Working Group B2.79	UK	From	2019
			To	Present
Visiting Lecturer	University of Chester, Department of Computer Science, Electronic & Electrical Engineering	UK	From	2019
			To	2021
Graduate Teaching Assistant and Researcher	The University of Manchester, School of Electrical and Electronic Engineering	KSA	From	2016
			To	2020

Electrical Transmission Engineer	Saudi Electricity Company, Department of Overhead Transmission Lines Operation and Maintenance	KSA	From	2012
			To	2013
Electrical Generation Engineer (Trainee)	Saudi Electricity Company, Qurayyah Power Plant	KSA	From	2011
			To	2011

Research Interests:

1. Power Systems Planning, Operation, and Reliability
2. Transmission Overhead Power Lines
3. High-Voltage Power Conductors Technologies
4. Integration of Renewable Energy Sources
5. Power Grid Asset Management

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Publication Link
1.	M. A. AlAqil, K. Kopsidas	Finite Element Modelling of Aeolian Vibrations on Stranded High-Voltage OHL Conductors	IET MEDPower Conference, Dubrovnik, Croatia, p.p. 1-7, 2018.	Click Here
2.	M. A. AlAqil, K. Kopsidas	Finite Element Model to Asses Vibration Fatigue of Composite OHL Conductors	IEEE Power & Energy Society General Meeting (PESGM), Atlanta, Georgia, USA, p.p. 1-5 2019.	Click Here
3.	M. A. AlAqil, K. Kopsidas	Electric Network Power Transfer Flexibility – Focusing on Power Conductors Electro-Mechanical Behavior	IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), Bucharest, Romania, p.p. 1-5, 2019.	Click Here
4.	M. A. AlAqil, K. Kopsidas	Modelling the Structural-Dynamics of Electrical Overhead Line Power Conductors	International COMSOL Conference, Cambridge, UK, p.p. 1-8, 2019.	Click Here
5.	M. A. AlAqil, K. Kopsidas	Predicting the End-of-Life for OHL Conductors	IEEE PES T&D Conference and Exposition, Chicago, USA, p.p. 1-5, 2020.	Click Here
6.	M. A. Al Aqil, A. Aldelbahi, M. H. Shwehdi, M. Rajasamsudeen	Assessing the Influence of Electrical Load Disturbances on Steel Factory Production Lines	IEEE ACCESS, pp. 1-8, 2019.	Click Here
7.	M. H. Shwehdi, M. A. Al Aqil	Forthcoming smart DC nano-grid for green buildings—A reflective vision	International Journal of Smart Grids and Clean Energy, vol. 4, no. 1, January 2015: pp. 52-58.	Click Here

8.	M. H. Shwehdi, M. A. Al Aqil, M. Rajasamsudeen	EMF Analysis for a 380kV Transmission OHL in the Vicinity of Buried Pipelines	IEEE Access, pp. 1-8, 2019.	Click Here
9.	M. A. Al Aqil, K. Kopsidas,	Modelling Wind-Motions for Multi-Layer OHL Conductors	IEEE ACCESS, p.p. 1-11, 2020.	Click Here
10.	M. A. AlAqil, K. Kopsidas	Evaluating Aeolian Vibration for HTLS Conductors	IEEE Transactions on Power Delivery, p.p. 1-8, 2021.	Click Here
11.	K. Kopsidas, S. A. Rahman, M. A. Al Aqil, Stefano Rolfo,	Reassessing Overhead Line Rating Calculations: Modelling Conductor Geometry and Air-Dynamics	IEEE Power Transactions on Delivery, p.p. 1-8, 2022.	
12.	K. Kopsidas, M. A. Al Aqil, T. Kavanagh	Performance and Control of Vibrations of HTLS Conductors	The Centre for Energy Advancement through Technological Innovation (CEATI), Canada, 2019	Click Here
13.	M. A. AlAqil, K. Kopsidas	Predicting Vibration Fatigue for Overhead Line Conductor Systems	ENA Smarter Networks Portal (nationalgrid UK), UK, 2019.	Click Here
14.	K. Kopsidas, M. A. Al Aqil, H. Liu, F. Koehle	Understanding the performance of ACCC HTLS Conductor technology	Scottish and Southern Energy Networks Ltd, 2022.	
15.	K. Kopsidas, M. A. Al Aqil	Presentation on Quantifying Aeolian Vibrations of HTLS Conductors: Standard Implementation and Practices	The International Council on Large Electric Systems (CIGRE) Paris Conference, Paris, France, 2018.	
16.	M. A. Al Aqil	Opportunities for Increasing the Power Transfer Capacity of OHLs by Considering the Thermal and Mechanical Aspects of Conductor Design	The International Council on Large Electric Systems (CIGRE) NGN Young Members Showcase, Manchester, UK, 2020.	Click Here
17.	M. A. Al Aqil	Presentation on the Challenges and Potential Solutions for integrating High Shares of Renewables into the Bulk Electric Network	IEEE PES Technical Meeting, Saudi Arabia, 2020.	
18.	M. A. Al Aqil	Presentation on Energy Mix and Integration of Renewable Energy Sources in KSA	Saudi Council of Engineers, Saudi Arabia, 2020.	
18.	M. A. Al Aqil	Presentation on Facilitating the Connection of Clean Energy Sources by Optimizing the Power Network Operation and Asset Management Practices	IEEE PES Technical Meeting, Saudi Arabia, 2021.	
19.	M. A. Al Aqil	PhDThesis: Increasing Overhead Line Power Transfer Capacity by Optimising conductor Electro-Mechanical Performance",	University of Manchester Library, 2021.	
20.	M. A. Al Aqil	Evaluating the Impact of Conductor Vibrations on Overhead Line Structures	GRIN Verlag Publisher, Munich, Germany, 2015.	



21.	M. A. Al Aqil	Technical loss optimization of distribution network.	UNITEN, Putrajaya Library, Malaysia, 2012.	
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Language Proficiency:

1. Arabic
2. English
3. Bahasa Malayu