

CURRICULUM VITAE

PERSONAL INFORMATION									
Name:		Yomna Omran Abdelhaleem	n Shaker						
Nationalit	y:	Egypt							
Job Title:		Assistant Professor							
College:		Engineering and Technology	/						
Departme	ent:	Engineering							
Contact In	Contact Information: E-mail: y.shaker@ustf.ac.ae Office Phone No, Mobile Number (552258609)								
EDUCATIONAL BACKGROUND									
1. Doctorate: Electrical Engineering									
Analysis o	of Inermal	behavior of cast Resin Dry Typ	be Transformers using	-inite Elements Teci	nnique				
Cairo University,Egypt,2010.									
2 Macter: Electrical Engineering									
2. Waster, Electrical Engineering Thermal Behavior of SE6 Gas Insulated Transmission Lines									
Cairo University.Egypt.2003.									
3. Bachelor: Electrical Engineering									
Cairo Univ	versity,Egy	pt, 1998.							
PROFESSI	ONAL EXP	RIENCE							
From	То	Position	Employer		Country				
(year)	(year)								
2021	Present	Assistant Prof.	University of science a	nd Technology of	Fujirah/ UAE				
			Fujirah)						
2017	2021	Assistant Prof.	Al Dar University		Dubai/ UAE				
2016	2017	Assistant Prof. (visiting	AlGhurair University		Dubai/				
		professor)			UAE				
2012	2015	Research Associate.	American University		Sharjah/UAE				
			of Sharjah		-				
2013	2015	Assistant Prof.	University of Sharjah		Sharjah/UAE				
		(adjunct position)							
TEACHING	G EXPERIEN	ICE AREA / COURSES)							
Academ	ic Year	Course Title	Academic Year	Course Title					
2020-202	23	Renewable energy	2019-2023	Electric machines					
2020-202	23	Smart grid	2020	Power electronics					
2020		Energy conversion and storage	2019	Computer control a	ind				
				instrumentation					
2010 201	7 2015	Electric Circuit I	2017/2018	Electronics I					
2019 201	., 2013		2017/2010						
2017 2015 2014		Electric circuit II	2017/2018	Electronics II					
2016		High Voltage	2017/2018	Physics I					
2016		Electric machines	2017/2018	Physics II					
2016		Flectromagnetic fields	2017/2018	, Differential Fouatio	ns				
2010		Concretion of closes's a sure	2017/2010						
2010 Generation of electric power 2017/2018 Linear Algebra									

RESEARCH AREA

Renewable energy system, Modeling of Photovoltaic system modeling and simulation High voltage engineering, Electric Machines, AI application in PV defect detection Partial discharge

PUBLICATIONS							
1. JC							
	I. Jouri	nal Articles					
:	2023 I I	Fatmah Mazen, Rania Abo Elseoud and Yomna Shaker," Deep Learning for Automatic Defect Detection in PV Modules Using Electroluminescence Images" IEEE access, June 2023.					
:	2023 R. N N	aghad Melhem, Yomna Shaker "Optimum Tilt Angle and Solar Radiation of Photovoltaic Aodules for Gulf Collaboration Council Countries" International Journal of Energy Research. May 2023					
:	2022 F S	atmah Ali Mallahi, Mariam Mohamed and Yomna Omran Shaker," Integration of Solar Energ Supply on Smart Distribution Board Based on IoT System", Designs, MDPI, November 2022.					
2	2022 I Z a	Dalia Yousri, Ehab F. El-Saadany, Yomna Shaker, Thanikanti Sudhakar Babu, Ahmed F. Zobaa, Dalia Allam, "Mitigating mismatch power loss of series-parallel and total-cross-tied rray configurations using novel enhanced heterogeneous hunger games search optimizer",					
	E	Energy Report, November 2022.					
2	2022 I M	Dalia Yousri , Mohammed Mudhsh , Yomna O. Shaker, Laith Abualigah , ElsayedTag-Eldin, Mohamed Abd Elaziz , and Dalia Allam,"Modified Interactive Algorithm Based on Runge Kut Dptimizer for Photovoltaic Modeling: Justification Under Partial Shading and Varied					
	1	Cemperature Conditions", IEEE access, March 2022.					
20	022 I F b J	Dalia Yousri, Ahmed Ousama, Yomna shaker, Ahmed Fathy, Thanikanti Sudhakar Babu, Hegazy rezk, Dalia Allam," Managing the exchange of energy between microgrid elements based on multi-objective enhanced marine predators algorithm", Alexandria Engineering ournal, Febreury 2022					
2	2021	Yomna Shaker, Dalia Yousri , Ahmed Osama , Ahmed Al-Gindy , Elsayed Tag-Eldin , and Dalia Allam "Optimal Charging/Discharging decision of Energy Storage Community in Grid- connected Microgrid Using Multi-objective Hunger Game Search Optimizer" IEEE access					
	2021	Septemper 2021 Dalia Yousri, Yomna Shaker , Dalia Allam and Seyedali Mirjalili,"An Efficient Photovoltaic Modeling Using an Adaptive Fractional-order Archimedes Optimization Algorithm: Validation with Partial Shading Conditions", Solar Energy, submitted 2021.					
	2019	Yomna Shaker," Understanding and localization of partial discharge by numerical analysis of acous emission". Asian Journal of Scientific Research, April 2019.					
	2019	Y. O. Shaker, "Detection of Partial Discharge acoustic emission in power transformer", Internation Journal of electrical and computer engineering (IJECE), December 2019					
:	2014	Y. O. Shaker, A. EL_Hag, and S. h. Jayram, "Thermal Modeling of MV Cable Termination und Square Pulse", IEEE Transactions on Dielectrics and Electrical Insulation, June 2014.					
:		Magdy B. Eteiba, Essam A. Alzahab, and Yomna O.Shaker, "Steady State Temperature Distribution Cast-resin Dry Type Transformer Based on New Thermal Model Using Finite Element Method' International Journal of Electrical and Computer Engineering, World Academy of Science, Engineerin and Technology, Vol.4, no.2, 2010.					
2. C	ONFERENCES						

Γ

4. Conferences						
Raghad Melhem, Yomna Shaker "Estimating the Optimum Tilt Angle of Solar Panels in Fujai Advances in Science and Engineering Technology International Conferences (ASET), Sha UAE,2023.	ral :ja					
2019 Yomna Shaker," Modeling of Pulsed Electric Field for liquid food processing using simula method", International Conference On Digitization, Landscaping & Artificial Intelligence, U. Nov. 2019						
2018 Yomna Shaker, "Propagation Behavior of Partial Discharge Acoustic Signals by Using Finite Eleme Technique", 1st International Conference on Computer Application and Information Security, Riyad Saudi Arabia, 2018.						
2016 Yomna Shaker, Abdelmonaem Zahed and Ayman El-Hag," Experience with Acoustic Sensors Partial Discharge Detection", IEEE conference on High Voltage Engineering and application Chengdu, China, 2016.						
2012 Y.O.Shaker, A. Elhag, and S.H.Jayram, "Thermal Model of MV Cables Termination using Fir Element Technique", Conference on Electrical Insulation and Dielectric Phenomena, Montre Canada, 2012.						
2011 Yomna O.Shaker, "Sensitivity Study of Transient Temperatures of Cast-resin Dry Ty Transformer",2nd International Conference on Electric Power and Energy Conversion Syster EPECS'11, Sharjah, UAE, September 2011						
ling association : "Qatar Foundation" e:" Asset Management for Power Transformers in Smart Grid" vestigator: Prof. Ayman El-Hag Yomna Shaker nt of transformer PD online monitoring techniques because PD monitoring is a very common ng technique that has been used extensively in the context of power transformers. Several insors have been utilized like RF antenna, acoustic sensors and high frequency current . Each technique has its own advantages and disadvantages that limit the usefulness of each. ch work will study the possibility to fuse different types of PD sensors and integrate them to D detectability. The significance of this project is foreseen as a result of its contribution in state-of-the-art smart grid technologies. The proposed research employs a number of novel ombines a set of technologies to produce a reliable power transformer on-line monitoring is unique and very helpful in electric power network. orograms accreditation for Arab university (Arab universities association) - learning coordinator for Engineering School to organize all online material in the pandemic enhancing the quality of delivered contents through LMS by conducting workshops and sion. Ensuring the level of quality by making surveys on the Faculty and students' level. several quality indicators for E-learning based on system and service quality, content quality, pective and instructor attitude. g in institutional effectiveness committee (IE) to maintain the quality assurance on the l level and program level by auditing and revise the level of course files, course assessment neasuring the quality based on the benchmarks referred to MOE. e of research activity in the Engineering school as a research representative by organizing oups , joined research plans , applying for funded projects and participating in IEEE student research day of the university.						
	 Raghad Melhem, Yomna Shaker "Estimating the Optimum Tilt Angle of Solar Panels in Fujai Advances in Science and Engineering Technology International Conferences (ASET), Shar UAE, 2023. Yomna Shaker, " Modeling of Pulsed Electric Field for liquid food processing using simula method", International Conference On Digitization, Landscaping & Artificial Intelligence, U Nov.2019 Yomna Shaker, "Propagation Behavior of Partial Discharge Acoustic Signals by Using Finite Eler Technique", 1st International Conference on Computer Application and Information Security, Riy Saudi Arabia, 2018. Yomna Shaker, Abdelmonaem Zahed and Ayman El-Hag," Experience with Acoustic Senson Partial Discharge Detection", IEEE conference on High Voltage Engineering and applicat Chengdu, China, 2016. Y.O.Shaker, A. Elhag, and S.H.Jayram, "Thermal Model of MV Cables Termination using F Element Technique", Conference on Electrical Insulation and Dielectric Phenomena, Mont Canada, 2012. Yomna O.Shaker, "Sensitivity Study of Transient Temperatures of Cast-resin Dry 7 Transformer?. and International Conference on Electric Power and Energy Conversion Syst EPECS'11, Sharjah, UAE, September 2011 					

Workshops

 Regional Benchmarking and Roundtable Discussion for Aspirational Peer Comparison and Self-Assessment Presenters New Teaching Techniques Scientific research ethics Funding academic project

Awards

- The best teaching staff from Electrical Engineering Department,
- IEEE student day
- Certified as Academic Program Assessor from Arab Universities Association
- Excellence in Research from University of Science and Technology of Fujairah