



جامعة العلوم والتقنية في الفجيرة
UNIVERSITY OF SCIENCE & TECHNOLOGY OF FUJAIRAH

CURRICULUM VITAE

PERSONAL INFORMATION

Name:	Amir J. Majid
Nationality:	Danish
Job Title:	Associate Professor
College:	Engineering and Information Technology
Department:	Electrical Engineering
Contact Information:	a.abdulmajid@ustf.ac.ae , Office 611

EDUCATIONAL BACKGROUND

- Ph.D. Loughborough University England, 1980**
Major: Electrical Engineering/ Power and Control Engineering
Minor: Power Control & Energy
Title: Stability and control of sub-synchronous oscillations in a large power system
- M.Sc. Surrey University England, 1977**
Major: Electrical Engineering/ Systems Engineering
Minor: Electrical Engineering
Title: Control of Tsytkin's oscillator
- B.Sc. Baghdad University Iraq, 1971**
Major: Electrical Engineering/ Power
Minor: Electrical Engineering
Title: Boundary Method Programming

PROFESSIONAL EXPERIENCE

From (year)	To (year)	Position	Employer	Country
1971	1974	Electrical Engineer	Iraqi national grid	
1976	1977	Electrical Engineer	Wilson Engineering	
1979	1982	Electrical Logging Engineer	Schlumberger Int.	
1982	1985	University Lecturer	Hoon Higher Institute of EE Engineering	
1985	1987	Researcher	Danish Technical University	
1990	1992	Technical Engineer	Danish Technological Institute	
1992	1995	Researcher	Danish Technical University	
1995	1998	University lecturer	Sharjah College (American University of Asea)	
1998	2000	University lecturer	Al Bayan University	
2000	2019	University lecturer	Ajman University	
2019	Now	University lecturer	University of Science & Technology at Fujairah	

TEACHING EXPERIENCE AREA / COURSES)

1998-2000	Electrical Machines, Electrical Circuits, Electronics I, Programming, Logic Design	Al-Bayan University, Abu Dhabi
2000-2002	Measurements, Logic Design, Programming 1 & 2, etc.	AUST, Abu Dhabi
2002-2009	Measurements, Logic Design, Programming 1 & 2, Digital IC, Analog IC, C++, DSP, Communication principles, Signals & Systems, Circuits 1 & 2, Electronics 1 & 2, etc.	AUST, Abu Dhabi, and Ajman
2009-2019	Measurements, Logic Design, Programming 1 & 2, Digital IC, Analog IC, C++, Microprocessors, ICS, Control Systems, Random Variables, Machines, Power, etc.	AUST, AU, Fujairah
2019- now	Power System Analysis, Electrical Power Distribution Systems, Optoelectronics, Power switching Devices	USTF

RESEARCH AREA	
Versatile research: Power & Energy, Control, Renewables, MEMS, WSN	
PUBLICATIONS	
1. JOURNALS:	
2022	Accurate and efficient forecasted wind energy using selected temporal metrological variables and wind direction, Energy Conversion and Management: X 16 (2022) 100286 www.sciencedirect.com/journal/energy-conversion-and-management-x
2022	Wind energy forecasting by fitting predicted probability density functions of wind speed measurements, International Journal of Energy and Environmental Engineering, Scopus, 19/2/2022, https://doi.org/10.1007/s40095-022-00475-8 , https://doi.org/10.1007/s40095-022-00475-8
2021	Relaxing Method in the Evaluation of MPPT of Photovoltaic Cells Based on MIT Modeling, (SCOPUS) , Mathematical Modelling of Engineering Problems, IJMM, Vol. 8, No. 1, February 2021, pp. 158-164 Journal homepage: http://iieta.org/journals/mmep
2021	The Evaluation of Wind Energy Based on the Inherent Nature of Wind Speed Assessment at Fujairah of UAE.(SCOPUS), Instrumentation Mesure Métrologie, IJMM, Vol. 20, No. 3, June 2021, pp. 121-130 Journal homepage: http://iieta.org/journals/i2m
2021	Economic Planning of the Operation of PV-Connected Distribution Network Using a Probabilistic Model for Extending the Network Lifetime. (SCOPUS) International Journal of Sustainable Development and Planning IJSDP, Vol. 16, No. 1, February 2021, pp. 97-103 Journal homepage: http://iieta.org/journals/ijmdp
2021	Lifetime Extension of Three-dimensional Wireless Sensor Networks, Based on Gaussian Coverage Probability. (SCOPUS), Journal Européen des Systèmes Automatisés JESA Published with (Vol. 54, No. 4, pp. 569-574), 31/8/2021. Journal homepage: http://www.iieta.org/journals/jesa/paper/10.18280/jesa.540406
2021	Lifetime Extension of Three-Dimensional Wireless Sensor Networks, Based on Gaussian Coverage Probability, 31/8/2021, Journal Européen des Systèmes Automatisés JESA, Journal Européen des Systèmes Automatisés Vol. 54, No. 4, August 2021, pp. 569-574 Journal homepage: http://iieta.org/journals/jesa
2021	Relaxing Method in the Evaluation of MPPT of Photovoltaic Cells Based on MIT Modeling, SCOPUS. Mathematical Modelling of Engineering Problems Vol. 8, No. 1, February 2021, pp. 158-164 Journal homepage: http://iieta.org/journals/mmep
2021	Economic Planning of the Operation of PV-Connected Distribution Network Using a Probabilistic Model for Extending the Network Lifetime, SCOPUS. International Journal of Sustainable Development and Planning Vol. 16, No. 1, February 2021, pp. 97-103 Journal homepage: http://iieta.org/journals/ijmdp .
2020	Scenarios of lifetime extension algorithms for wireless ad hoc networks. (SCOPUS), International Journal of Computer Networks & Communications, IJCNC, Vol. 12, No. 6, November 2020
2020	Scenarios of lifetime extension algorithms for wireless ad hoc networks, SCOPUS. International Journal of Computer Networks & Communications, IJCNC, Vol. 12, No. 6, November 2020
2020	Reliability and Failure Rate Evaluation of Lifetime Extension Analysis of Ad Hoc and Wireless Sensor Networks, SCOPUS. Mathematical Modelling of Engineering Problems Vol. 7, No. 3, September 2020, pp. 411-420 Journal homepage: http://iieta.org/journals/mmep
2019	Case Studies of Lifetime Extension Algorithms For Ad Hoc Wireless Network, A. Majid, Paper accepted in IJCNC, January 2019.

2018	Engineering Networks and Circuits With Matlab Simulations Paperback , A. Majid, Book, Create Space, ISBN-13: 978-1794647480, Amazon platform, March 2018, https://www.amazon.co.uk/dp/1794647481
2018	Algorithms of Wireless Ad Hoc Sensors in Robotics, A. Majid, Int. J. Robotics and Automation Engineering, IJRAE, Vol. 2018, Issue-01.
2017	Renewable Energy Sustainability With Micro Hydro Systems In Fujairah. A. Majid, Accepted paper at the 2nd World Congress on Wind & Renewable Energy, London, June 21-23, 2017
2017	Algorithms of Wireless Ad Hoc Sensors in Robotics, A. Majid, 3rd World Congress on Automation & Robotics, San Diego, June 29-30, 2017
2017	MATLAB BASED ELECTRIC CIRCUITS ANALYSIS, A. Majid, Published book, Amazon Paperback: 438 pages, Publisher: Create-Space Independent Publishing Platform (7 Jan. 2017), ISBN-10:1541358848,ISBN-13:978-1541358843. https://www.amazon.co.uk/s/ref=nb_sb_noss?url=search-alias%3Daps&field-keywords=Amir+Majid+MATLAB+BASED
2016	Prolonging Network Energy Lifetime of Load Switching WSN Systems; A. Majid, International Journal of Engineering & Scientific Research, Vol. 4, Issue 10, October 2016
2016	Energy-Lifetime Control Algorithm for Variable Target Load Demands of Ad Hoc Networks; A. Majid, International Journal of Advanced Engineering, Management and Science, IJAEMS, Vol.-2 , Issue-6, June 2016.
2016	Prolonging Network Energy–Lifetime of Load Switching of WSN Systems, A. Majid, Journal of Algorithms, Computer Network and Security, Vol.1, No.2, Science Solve March 2016
2015	Maximizing AD Hoc Network Lifetime Using Coverage Perturbation Relaxation Algorithm, A. Majid, International Journal of Wireless Communications and Network Technologies, Vol. 4, No. 6, October 2015, ISSN 2319-6629
2015	ALGORITHM WITH SIMULATIONS OF NETWORK SENSORS LIFETIME AND TARGET ZONE COVERAGE; A. Majid, International Knowledge Press, Vol. 6, Issue 3, ISSN: 2395-4205 (2395-4213Online), ID:2015/AJOM, COR/1384, http://www.ikpress.org/abstract.php?iid=604&id=44&aid=4381#.VcWRViqqko
2015	Algorithm of AD HOC Network Sensors Lifetime and Target Zones Coverage, A. Majid, International Journal of Innovative Research in Advanced Engineering, Vol.-2, Issue-4, April2015.
2015	Speech to Sign-Language and Sign-Language to Speech, A. Majid, Z. Rashid, Proceedings of the 2015 International Conference on Industrial Engineering and Operational Management, Dubai, 2015
2015	Matlab Simulations of AD HOC Sensors Network Algorithms, A. Majid, International Journal on Recent and Innovation Trends in Computing and Communications, Vol. 3, Issue 1, ISSN:2321-8169, pp.288-293, January 2015.

2. CONFERENCES:

2021	The Use of a Probabilistic Model for the Economic Operation and Lifetime Extension of a Photovoltaic-Wind Distribution Network, SCOPUS. UAEU, 6th International Conference on Renewable Energy: Generation and Applications (ICREGA).
2020	Lifetime Extension of Distributed Power Networks by Evaluating the Joint Gaussian Probabilities of the Power Coverage of Generators to Load Centers Demand. SCOPUS. 2nd IEOM Society African International Conference, 2020.
2019	Lifetime Extension with Economic Load Dispatch of Low Voltage Ad Hoc Distributed Networks, ICEEN Conference (Singapore), SCOPUS, accepted, March 7-9, 2020, http://www.iceen.org
2019	Shadowing Effect on The Lifetime Extension of Ad Hoc Wireless Networks, WASET conference (London), accepted, Jan. 21-22, 2020, www.waset.org
2019	Lifetime Extension of Ad Hoc Wireless Network with Fading Channel, NetCom 2019 (Zurich), accepted, Nov. 23-24 , 2019, https://cseit2019.org/netcom/papers.html
2019	Shadowing and Fading Environmental Effects on Lifetime Extension of Ad Hoc Wireless Networks; ICECTA 2019 (Ras Al Khaima, UAE), IEEE Xplore, www.aurak.ac.ae , Nov. 19-21, 2019.
2017	Algorithms of Wireless Ad Hoc Sensors in Robotics, A. Majid, 3 rd World Congress on Automation & Robotics, San Diego, June 29-30, 2017

3. BOOKS AND BOOK CHAPTERS:

Three books on electrical engineering: A. Majid (single author):

1. **Electrical Circuits Analysis with Matlab, Create Space, January 2017**
2. **Matlab Analysis of Electrical Engineering Networks, Create Space, March 2018**
3. **Computer Engineering Essentials, Create Space, February 2019**

4. NOTES AND ARTICLES:

	Study and Lecture	Type	Period	Notes
1	خواطر في تدريس الهندسة	Article in AUST Journal	2003	No. 2-Volum 8,AUST research magazine : ابداع
2	Thoughts in Engineering Education	Article in AUST Journal	2004	Volume 9 Issue 3
3	E-Learning; Unlimited Learning Resources	Seminar Lecture	Spring 2004	Faculty of Engineering seminar lecture, Abu Dhabi
4	Nanotechnology; to where?	Seminar Lecture	Nov. 2005 and March 2010	Faculty of Engineering seminar lecture, Abu Dhabi
5	Advances in Control; Virtual Instrumentation	Seminar Lecture	11/15/2006	Faculty of Engineering seminar lecture, Abu Dhabi
6	Achievements of Electrical Engineering Students	Seminar Lecture	2007	Faculty of Engineering seminar lecture, Ajman
7	Micro Signal Measurements ;Low Level Measurements	Seminar Lecture	2008	Faculty of Engineering seminar lecture, Fujairah
8	Continuous Training for Outhouse Engineers	Institutional Research	2009	Faculty of Engineering Fujairah
	Engineering and Computer Technologies Programs	Seminar Lecture	2009	Faculty of Engineering seminar lecture, Fujairah
9	Electronic Archive System Proposal	AUST Research	2009	Faculty of Engineering Fujairah
10	Pilot Wind Energy Measurements	Regional research competition	2010	Faculty of Engineering Fujairah
11	Power Engineering program	Curriculum design	June 2011	New program proposal study for accreditation

5. OTHER PUBLICATIONS:

PROFESSIONAL AND ACADEMIC ACTIVITIES

1. Professional Training (conductance and attendance)

	Industrial Training & Consultation	Beneficiary Companies	Periods	Notes
i	UPS And Battery Systems	CEGLIC Consults and ADGAS oil company, Abu Dhabi	6-10 May 2006	Conducting professional training for 15 ADNOC, ADGAS and ADMA engineers
ii	Power cables	CEGLIC Consults and ADGAS oil company, Abu Dhabi	May 2006	Consultation and preparation of training for 15 ADNOC, ADGAS and ADMA engineers. Training was not conducted.

iii	Fujairah Aviation Academy	Fujairah Aviation Academy	Summer 2011	Training agreement and Understanding letter.
<p>2. Workshops and seminars (conductance and attendance) Conducted FDP: AI & Robotics, 2022 Towards Smart Classes at Smart University, 2023</p> <p>3. Master Theses Supervision N/A</p> <p>4. Doctorate Theses Supervision N/A</p>				
MEMBERSHIP OF SCIENTIFIC ASSOCIATIONS				
IEEE, IAK, IEOM				
AWARDS				
Various appreciation letters. Training scholarship at Manheim BBC, Germany.				