


Curriculum Vitae for XMUM Official Website

	Name	Ir Dr Mohd Faris bin Abdullah
	Current Position	Assistant Professor
	Administrative Position (if applicable)	NA
	Room No.	A1#458
	Programme	Electrical and Electronics Engineering
	Telephone	+603-8XXX
	Email	mohd.faris@xmu.edu.my

BIOGRAPHY

Ir Dr Mohd Faris bin Abdullah is an Assistant Professor at the Electrical and Electronics Engineering, School of Electrical and Computer Engineering, Xiamen University Malaysia, Malaysia since 2021. He holds an Advanced Diploma in Electrical (Power) Engineering from the Institut Teknologi Mara (ITM), Malaysia and a Master of Electrical Engineering from the Universiti Tenaga Nasional (UNITEN), Malaysia. He completed his PhD in Electrical and Electronic Engineering from Universiti Teknologi PETRONAS (UTP) in 2015. He has been teaching in UTP from 2009 until 2021. Prior to joining UTP, he was with Tenaga Nasional Berhad (TNB) since 1989 and serving distribution division for 12 years and transmission division for 8 years. His experience in distribution division includes planning, construction, maintenance, metering and protection. In transmission division, he was working in maintenance department that responsible for substation, lines, cables, protection, telecontrol and technical support. He is a Professional Engineer (Board of Engineers Malaysia), Competent Engineer (Energy Commission) and a member of The Institute of Engineers, Malaysia (IEM).

Apart from lecturing, Ir Dr Mohd Faris also supervises undergraduate and postgraduate students. He also published indexed journals, book chapters and presented in local and international conferences in the area of power systems and involved as international journal reviewer. He is recipient of university internal and national grants. He regularly conducts short courses and performed consultancy works. He is the assessor for Engineering Accreditation Council (EAC), Malaysia and the professional engineer interviewer for Institute of Engineers, Malaysia (IEM).

RESEARCH INTERESTS

Power System, Power Quality, Renewable Energy

EDUCATIONAL BACKGROUND

- PhD (Electrical & Electronics Engineering), Universiti Teknologi PETRONAS, Malaysia (2015)
- MSc (Electrical Engineering), Universiti Tenaga Nasional, Malaysia (2006)

- Advanced Diploma (Electrical (Power) Engineering), Institut Teknologi Mara, Malaysia (1989)

WORKING EXPERIENCE

- Assistant Professor, Electrical and Electronics Engineering, School of Electrical and Computer Engineering, Xiamen University Malaysia, Malaysia (2021 to present)
- Associate Professor, Electrical and Electronics Engineering, Faculty of Engineering, Universiti Teknologi PETRONAS, Malaysia (2018 to 2021)
- Senior Lecturer, Electrical and Electronics Engineering, Faculty of Engineering, Universiti Teknologi PETRONAS, Malaysia (2009 to 2018)
- Branch Manager, Asset Maintenance (Utara 3 - Ipoh), Transmission Division, Tenaga Nasional Berhad, Malaysia (2007 to 2009)
- Branch Manager, Asset Maintenance (Utara 2 - Alor Star), Transmission Division, Tenaga Nasional Berhad, Malaysia (2003 to 2007)
- Senior Protection Engineer, Protection, Telecommunication And Telecontrol Division, Tenaga Nasional Berhad (TNB), Kedah/Perlis, Malaysia (2001 to 2003)
- Manager (Maintenance & Protection), TNB Distribution Sdn. Bhd., Kedah/Perlis, Malaysia (2000 to 2001)
- Senior Protection Engineer, TNB Distribution Sdn. Bhd., Kedah/Perlis, Malaysia (1998 to 2000)
- Protection Engineer, Tenaga Nasional Berhad (TNB), Wilayah Perak, Ipoh, Perak, Malaysia (1996 to 1998)
- District Manager, Tenaga Nasional Berhad (TNB), Bagan Serai, Perak, Malaysia (1993 to 1996)
- Assistant Engineer (LV Overhead System), Lembaga Letrik Negara (LLN)/Tenaga Nasional Berhad (TNB), Kulim, Kedah, Malaysia (1989 to 1993)

RESEARCH EXPERIENCE / GRANTS

RESEARCH/CONTRACT RESEARCH			
RESEARCH TITLE	FUNDING AGENCY	AMOUNT (RM)	YEAR
Development Of Intelligent Method To Detect Unlighted Utility Street Lighting System (PI)	Short Term Internal Research Fund (STIRF) - UTP	14,500	2010/11
Preliminary Technical Analysis For Identifying Possible Interconnection To Transfer Power From Rapid Complex To Neighbouring Utilities (PI)	Group Technology Solutions (GTS) - PETRONAS	119,900	2011
Triplen Harmonics Currents Propagation Through Medium Voltage Distribution Network (PI)	Short Term Internal Research Fund (STIRF) - UTP	25,000	2011/12

RESEARCH TITLE	FUNDING AGENCY	AMOUNT (RM)	YEAR
Vegetation Encroachment Monitoring using Satellite Stereo for Power Lines in Malaysia (Co-PI)	Malaysian Electricity Supply Industries Trust Account (MESITA) – Kementerian Tenaga, Teknologi Hijau dan Air (KETHA)	158,437	2013/2016
Renewable Energy Sources Output Power Prediction With Variable Grid Voltage Using Artificial Intelligent (PI)	MyRA – Smart i-Loci Model - Ministry of Higher Education (MOHE)	87,000	2013/2016
The Third Harmonic Model for Salient Pole Synchronous Generator During Ground Fault (PI)	Fundamental Research Grant Scheme (FRGS) - Ministry of Higher Education (MOHE)	50,000	2014/2016
Modelling And Analysis Of Islanding Operation For Distribution Network Connected With Distributed Generations (PI)	University Internal Research Funding (URIF) - UTP	50,000	2014/2015
A Novel Lean Blowout Prediction Technique for Re-manufactured Gas Turbine Trip using Artificial Intelligence (PI)	Fundamental Research Grant Scheme (FRGS) - Ministry of Higher Education (MOHE)	81,000	2016/2018
RAPID Integrated Electromagnetic Transient Studies (PI)	PETRONAS Technical Services Sdn. Bhd. - PETRONAS	338,140	2017/2018
Transformer Energization study for Package 29 C4 INA Plant (Co-PI)	PETRONAS Technical Services Sdn. Bhd. - PETRONAS	20,000	2018
A Novel Temperature Targeted Zone Prediction Technique for Dry-Low Emission Gas Turbine Trip Using Artificial Intelligence (PI)	Petroleum Research Fund (PRF)	182,000	2018/2021
Advanced Data Analytics to Detect Abnormal Events in Micro Grid Distribution Network Using High Resolution Micro-Phasor Management Unit (μ -PMU) Data (Co-PI)	Petroleum Research Fund (PRF)	58,000	2019/2021
Transient Recovery Voltage and Station Switching Transient Insulation Coordination Studies for Pengerang Co-Generation Plant (PCP) (PI)	PETRONAS Technical Services Sdn. Bhd. - PETRONAS	285,458	2020

REPRESENTATIVE PUBLICATIONS

PUBLICATIONS	
PAPER TITLE	JOURNAL
R. N. Mukerjee, M. F. Bin Abdullah , "Under-Reach Correction In Twin Circuits Without Residual Current Input From The Parallel Line"	IEEE Transactions On Power Delivery, Vol. 23, No. 3, pp. 1359-1365, July 2008 (Q1/IF=3.681)
Hussam M. M. Alhaj, Nursyarizal Mohd Nor, Vijanth S. Asirvadam, M. F. Abdullah , "Comparison of Power System Harmonic Prediction"	Procedia Technology, vol. 11, pp. 618–634, Elsevier, 2013
Malik AS, Abdullah MF , Kamel N, Xia L, "Method and System for Vegetation Encroachment Monitoring Relative to an Object of Interest (PCT-Filed)"	19 Apr. 2013
Hussam MM Alhaj, Nursyarizal Mohd Nor, Vijanth S Asirvadam, MF Abdullah , "Fundamental Frequency Estimation in Power System through the Utilization of Sliding Window-LMS Method"	Applied Mechanics and Materials, vol. 446, pp. 764-771, 2014
Hussam M. M. Alhaj, Nursyarizal Mohd Nor, Vijanth S. Asirvadam, M. F. Abdullah and Taib Ibrahim, "Time Delay Measurement Compensation in Harmonic State Estimation"	Applied Mechanics and Materials, vol. 699, pp. 745-750, 2014
M. Faris , Z. Baharudin, and N. Hisham, "The Third Harmonic Model for Salient Pole Synchronous Generator Under Balanced Load" (1 st Author)	IEEE Trans. Energy Convers., vol. 29, no. 2, pp. 519–526, 2014 (Q1/IF=4.501) (1 st /corresponding author)
Hussam M.M. Alhaj, Nursyarizal Mohd Nor, Vijanth S. Asirvadam, M.F. Abdullah and T. Ibrahim, "Estimation of Power System Harmonic Using Modified Normalized Least Mean Square"	Applied Mechanics and Materials, vol. 785, pp. 378-382, 2015
NK J Ahmad, AS Malik, MF Abdullah , "A novel method for vegetation encroachment monitoring of transmission lines using a single 2D camera"	Pattern Analysis and Applications, vol. 18 (Issue 2), pp. 419-440, 2015 (Q3/IF=1.512)
A Qayyum, AS Malik, MNM Saad, MF Abdullah , M Iqbal, "Evaluation Of Overcomplete Dictionaries For Image Inpainting"	Science International 28 (4), 3433-3440, ISSN 1013-5316, 2016
Abdul Qayyum, Aamir Saeed Malik, Naufal M Saad, Mohd Faris Abdullah , Mahboob Iqbal, Waqas Rasheed, Ab Rashid Ab Abdullah & Mohd Yaakob Hj Jaafar, "Measuring Height of High-Voltage Transmission Poles Using Unmanned Aerial Vehicle (UAV) Imagery"	The Imaging Science Journal, Volume 65, Issue 3, pp. 137-150, 13 March 2017 (Q4/IF=1.023)
Abdul Qayyum, Aamir Saeed Malik, Naufal M Saad, Mahboob Iqbal, Mohd Faris Abdullah , Waqas Rasheed, Tuan AB Rashid Abdullah & Mohd Yaqoob Bin Jafaar, "Scene classification for aerial images based on CNN using sparse coding technique"	International Journal of Remote Sensing - Unmanned aerial vehicles for environmental applications, Volume 38, Issue 8-10, Pages 2662-2685, 3 March 2017 (Q2/IF=2.976)

PAPER TITLE	JOURNAL
S Riman, N Ilyia, MF Abdullah , MF Romlie, Z Baharudin, "The third harmonic generated voltage by salient-pole synchronous generator during 3-phase-to-ground fault"	International Transactions on Electrical Energy System, DOI: 10.1002/etep.2401, 2017 (Q3/IF=1.692)
Moslem Uddin, Mohd Fakhizan Romlie, Mohd Faris Abdullah , Syahirah Abd Halim, Ab Halim Abu Bakar, Tan Chia Kwang, "A review on Peak Load Shaving Strategies"	Renewable and Sustainable Energy Reviews, Volume 82, Part 3, Pages 3323-3332, February 2018 (Q1/IF=12.11)
SAA Karim, MT Ismail, M Othman, MF Abdullah , MK Hasan, J Sulaiman, "Rational cubic spline interpolation for missing solar data imputation"	Journal of Engineering and Applied Sciences 13 (9), 2587-2592, 2018
Abdul Qayyum, Aamir Saeed Malik, Naufal M Saad, Mahboob Iqbal, Mohd Faris Abdullah , Waqas Rasheed, Tuan AB Rashid Abdullah, Mohd Yaqoob Bin Jafaar, "Image classification based on sparse-coded features using sparse coding technique for aerial imagery: A hybrid dictionary approach"	Neural Computing and Applications, Springer London, Volume 31, Issue 8, Pages 3587-3607, 1 August 2019 (Q1/IF=4.774)
Moslem Uddin, Mohd Fakhizan Romlie, Mohd Faris Abdullah , "Performance Assessment and Economic Analysis of a Gas-Fueled Islanded Microgrid—A Malaysian Case Study"	Infrastructures, Multidisciplinary Digital Publishing Institute, Volume 4, Issue 4, Pages 61, 26 September 2019
MB Omar, R Ibrahim, MF Abdullah , MHM Tarik, "Modelling of Dry-Low Emission Gas Turbine Fuel System using First Principle Data-Driven Method"	Journal of Power Technologies, Volume 100, Issue 1, Pages 1-13, 17 March 2020
Moslem Uddin, MF Romlie, MF Abdullah , CK Tan, GM Shafiullah, AHA Bakar, "A novel peak shaving algorithm for islanded microgrid using battery energy storage system"	Energy, Volume 196, Pages 117084, 1 April 2020 (Q1/IF=6.082)
M Atef, T Khatib, MF Abdullah , MF Romlie, "Optimization of a Hybrid Solar PV and Gas Turbine Generator System Using the Loss of Load Probability Index"	Clean Technologies, Volume 2, Issue 3, Pages 240-251, 14 July 2020
Md Masud Rana, Mohd Fakhizan Romlie, Mohd Faris Abdullah , "Peak Load Shaving in Isolated Microgrid by Using Hybrid PV-BESS System"	International Journal of Emerging Trends in Engineering Research, Volume 8, Issue 1.1, Pages 7-14, 2020
Ahmed Amirul Arefin, Khairul Nisak Md Hasan, Mohd Fakhizan Romlie, Mohd Faris Abdullah , Mohd Nazri Ali, Mohammad Lutfi Othman, "Determining Islanding Operation Using Micro Grid Phasor Measurement Unit Parameters"	International Journal of Emerging Trends in Engineering Research, Volume 8, Issue 1.1, Pages 97-101, 2020
Md Masud Rana, Mohd Fakhizan Romlie, Mohd Faris Abdullah , Moslem Uddin, Mohammad Obaidur Rahman, " Modeling of an isolated microgrid with hybrid PV-BESS system for peak load shaving simulation"	International Journal of Advanced Technology and Engineering Exploration, Vol 8(75), Pages 352-361, 2021