



**Assoc. Prof. Ir. Dr. Mohammad Lutfi Bin Othman**, *PEng CEng REEM CPMV BEM(Mal), MBOT(Mal), EC(Mal), EC(UK), MIEM(Mal), GreenTech(Mal), SMIEEE(USA), MIET(UK), MIRSS(Pol), Phi Kappa Phi UofA (USA), SJESB (Mal)*

*Associate Professor (UPM)  
Professional Engineer (Board of Engineers, Malaysia)  
Chartered Engineer (Engineering Council, UK)  
Registered Electrical Energy Manager (Energy Commission, Malaysia)  
Certified Professional in Measurement and Verification (Malaysian Green Tech Corp.)  
Electrical Director (Sigma Jelas Engineers Sdn. Bhd.)*

Centre for Advanced Power and Energy Research (CAPER)  
Department of Electrical and Electronic Engineering  
Faculty of Engineering  
Universiti Putra Malaysia  
43400 UPM Serdang, Selangor  
Malaysia

Tel: 6 03 8946 6325  
Fax: 6 03 8946 6327  
HP: 6 019-2755209  
Email: [lutfi@upm.edu.my](mailto:lutfi@upm.edu.my)

ORCID ID:



<http://www.eng.upm.edu.my/?LANG=en&uri=/akademikkee>  
<http://caper.eng.upm.edu.my>  
<https://www.linkedin.com/in/ir-dr-m-lutfi-othman-peng-ceng-reem-cpmv-30889288>  
[https://www.researchgate.net/profile/Mohammad\\_Lutfi\\_Othman](https://www.researchgate.net/profile/Mohammad_Lutfi_Othman)  
<http://orcid.org/0000-0003-0382-8666>  
[https://scholar.google.com/citations?user=YP14\\_FkAAAAJ&hl=en](https://scholar.google.com/citations?user=YP14_FkAAAAJ&hl=en)  
<http://www.researcherid.com/rid/E-7731-2016>  
<https://www.growkudos.com/profiles/98814>

Scopus: H-index 6  
Google Scholar: H-index 7

### Education

1. PhD Electrical Power Engineering, 2011, Universiti Putra Malaysia.
2. MSc Electrical Power Engineering, 2004, Universiti Putra Malaysia.
3. BSc Electrical Engineering, 1991, (CGPA: 3.72, Honor: *Magna Cum Laude*), University of Arizona, Tucson Az, USA

### Areas of Interest

1. Power System Protection: Protective relay operation modelling and analysis; computational-intelligence-based data mining for knowledge discovery in relay database; application of artificial intelligence in protection algorithms; Adaptive numerical protective relays.
2. Power System Operation: Power Quality, Smart Grid, Distributed Generation.
3. Energy Efficiency Management: Demand Side Management, Energy Efficiency Management in Buildings and Industries
4. Electrical Services Installation Works: Design and Project Administration Consultancy.

### Professional Qualification/ Membership/ Affiliation

1. Phi Kappa Phi ( $\Phi\K\Phi$ ) Honor Society, the University of Arizona.
  - Member, 1991 to date.
2. Board of Engineers, Malaysia (BEM).
  - Professional Engineer with Practicing Certificate (P. Eng.): reg. no. C19682, 22 Dec 2015 to date



- Professional Engineer (P. Eng.): reg. no. 9682, 12 Aug 1998 to 21 Dec 2015.
- Graduate Member: 1 Sep 1994 – 12 Aug 1998.
- 3. Institution of Engineers, Malaysia (IEM).
  - Corporate Member (MIEM) – reg. no. 16417, 16 Mar 1998 to date.
  - Graduate Member: 15 Jan 1996 – 16 Mar 1998.
- 4. Malaysia Board of Technologist (MBOT) (Lembaga Teknologis Malaysia)
  - Teknologis Berijazah (Graduate Technologist) – reg. no. GT18030416, 20 Feb 2018 to date.
- 5. Energy Commission, Malaysia (EC).
  - Registered Electrical Energy Manager (REEM) – cert. no. PTE-0069-2016, 1 July 2016 to date.
- 6. Malaysian Association of Energy Service Companies (MAESCO).
  - Certified Energy Manager – reg. tied to ST REEM, 1 July 2016 to date.
- 7. Institution of Engineering and Technology (IET), UK.
  - Member (MIET): mem. no. 1100249740, June 2012 to date.
- 8. Malaysian Green Technology Corporation (under KETHHA).
  - Certified Professional in Measurement and Verification (CPMV) - Dec 2016 to date.
- 9. Engineering Council UK (thru IET)
  - Chartered Engineer (CEng): reg. no. 616140, 6 August 2014 to date.
- 10. The Institute of Electrical and Electronics Engineers (IEEE), USA.
  - Member (MIEEE): mem. no. 80000516, 2004 to 2016.
  - Senior Member (SMIEEE): mem. no. 80000516, 2016 to date.
- 11. IEEE Power and Energy Society (IEEE-PES).
  - Member, 2004 to date.
- 12. IEEE Computational Intelligence Society (IEEE-CIS).
  - Member, 2012 to date.
- 13. International Rough Set Society (IRSS).
  - Member, 2006 to date.
- 14. AcademicKeys Who's Who in Engineering Higher Education (WWEHE)
  - Member, 2013 to date.
- 15. Persatuan Pegawai Akademik UPM (PPAUPM).
  - Member: mem. no. PPA-FK-A02863, since Feb 2014.
- 16. Asian Council of Science Editors (ACSE)
  - Member: mem. no. 60.10191, since July 2015.
- 17. Marquis Who's Who in the World
  - Biographical profile listed in Who's Who in the World 2016 (33rd Edition)
  - VIP no. 37000758, since September 2015.

Appointments	
Position	Duration
1. Visiting Lecturer at Kyushu Institute of Technology (Kyutech)	Mar 2015 to date
2. Technical Evaluation Expert, Malaysian Technology Development Corporation Sdn. Bhd.	Mar 2015 to date
3. Research Fellow / Founding Member, Center of Advanced Power and Energy Research (CAPER).	Dec 2012 to date
4. Associate Member, Center for Electromagnetic and Lightning Protection (CELP)	Jun 2014 to date
5. Electrical Director / Advisor for electrical engineering consultancy, Sigma Jelas Engineers Sdn. Bhd. (Engineering Consulting Firm).	1998 to date
6. Head of Academic Power Unit, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM.	18 Aug 2011 - Sep 2014
7. Mentor for:	
- The Institution of Engineers Malaysia (IEM) Log Book Training Scheme for Professional Interview.	1998 to date
- "English Language Immersion" program (for undergraduate engineering students to improve their performance in shaping self-excellence and confidence so as to be able to	2012-2013



- communicate proficiently in English in line with the university's needs.)
8. Interviewer for the Institution of Engineers Malaysia (IEM) Professional Interview (PI). 1998 to date
  9. Keynote/Lecture/Plenary Speaker for:
    - Invited Keynote speech: IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT-2014), Noorul Islam University, Kumaracoil, Kanyakumari, Tamilnadu, **India**. 20-21 Mar 2014
    - Invited Plenary speech: IEEE 2015 International Symposium on Advances in Power Distribution Engineering: Distributed Generation, Micro Grid and Renewable Integration (ISAPDE2015), The National Institute of Engineering, Mysuru, Karnataka, **India**. 28-29 Aug 2015
    - Lecture/Host: UPM-Kyutech Workshop on Malaysia's Power System and Renewable Energy, Center for Advanced Power and Energy Research (CAPER), **UPM**. 17 Nov 2015
    - Invited Public Lecture: ITB-UPM Research Collaboration Meeting, Center for Innovative Engineering, Institut Teknologi Brunei, **Brunei**. 18-20 Jan 2016
    - Invited Lecture: Meeting on Mutual Academic Activities, Faculty of Engineering, Prince of Songkla University, Hat Yai Campus, **Thailand**. 28-31 Oct 2015
    - Invited Public Lecture: HCMUT-UPM Research Collaboration Meeting, Ho Chi Minh City University of Technology (HCMUT), **Vietnam**. 13-16 Apr 2016
    - Invited Lecture: Seminar on "Occupational Safety and Health by Faculty of Engineering Specialist, Fac. Eng., **UPM**. 23 Feb 2016
    - Lecture/Host: UPM-Kyutech Workshop on Malaysia's Power System and Renewable Energy, Center for Advanced Power and Energy Research (CAPER), **UPM**. 10-21 Oct 2016
    - Lecture/Host: UPM-Kyutech Workshop on Malaysia's Power System and Renewable Energy, Center for Advanced Power and Energy Research (CAPER), **UPM**. 6-17 Nov 2017
    - Lecture: 'Efficient Project Management', hosting Shinshu University's postgraduate students, **UPM**. 1 Mar 2017
    - Invited Lecture: UPM-SIT Symposium of Electrical and Electronic Research, Shibaura Institute of Technology (SIT), Toyosu Campus, Tokyo, **Japan**. 24-26 Jan 2018
    - Invited lecture: 'Energy Saving', Institut Kemahiran Tinggi Belia Negara, Sepang, Selangor, **Malaysia**. 15 May 2018
  10. Session Chair for:
    - Renewable Energy parallel session - IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT-2014). 20-21 Mar 2014
  11. Editorial Committee for :
    - International Conference on Sustainable Mobility 2010, ICSM2010, 29 Nov – 3 Dec 2010, Seri Pacific Hotel, Kuala Lumpur. UTM, SAE International Malaysia Section & Proton. 2010
  12. Technical Program Committee (including Designated Reviewer) / Advisory Board / Advisory Committee / Publication Chair for:
    - 2012 IEEE International Conference on Power and Energy (PECON 2012), IEEE Power & Energy Society. 2012
    - 2014 IEEE Student Conference on Research and Development (SCOReD 2014). 2014
    - 2014 IEEE Innovative Smart Grid Technologies Conference - Asia (2014 ISGT ASIA), IEEE Power & Energy Society. 2014
    - 2014 IEEE International Power and Energy Conference (PECON 2014), IEEE Power & Energy Society. 2014



- 2015 IEEE Conference on Energy Conversion (CENCON 2015), IEEE Malaysia Power Electronics (PEL) Chapter. 2015
- 2015 Progress in Applied Mathematics in Science and Engineering (PIAMSE2015), Newcastle University and Malaysia Technical Scientist Association (MALTESAS). 2015
- 2015 International Conference on Intelligent System and Information System (ICIS 2015), American Society of Science and Engineering. 2015
- IEEE 2015 International Symposium on Advances in Power Distribution Engineering: Distributed Generation, MicroGrid and Renewable Integration (ISAPDE2015), IEEE Power & Energy Society, India & National Institute of Engineering, Mysuru, India. 2015
- 2015 IEEE Student Conference on Research and Development (SCOReD 2015), IEEE Malaysian Section and IEEE Asia Pacific University of Technology & Innovation Student Branch. 2015
- 2016 International Conference on Applied Mathematics, Simulation and Modelling (AMSM2016), Mahidol University and Macquarie University. 2016
- 2016 International Conference on Electrical Power, Communication and Computing Technologies (ICEC2T), IEEE Power & Energy Society, India & National Institute of Engineering, Mysuru, India. 2016
- 2016 International Conference on Mechanical, Electronic and Information Technology (MEIT2016), Phuket, Thailand. 2016
- 2016 IEEE 6th International Conference on Power and Energy (PECON 2016), IEEE Power & Energy Society, Hatten Hotel Melaka. 2016
- 2016 International Conference on Energy, Power and Electrical Machines (ICEPEM2016), IEEE Power & Energy Society, Istanbul, Turkey. 2016
- 2016 IEEE Industrial Electronics and Applications Conference (IEACon 2016), IEEE IA/IE Joint Chapter of Malaysia, Kota Kinabalu, Sabah, Malaysia. 2016
- 2016 Progress in Applied Mathematics in Science and Engineering (PIAMSE'2016), Newcastle University and Malaysia Technical Scientist Association (MALTESAS), Krabi, Thailand. 2016
- 2016 1st International Conference on Recent Advances in Electronics and Communication Technology (ICRAECT 2016), Dep. of Electronics and Communication Eng., SJB Institute of Technology, Bangalore, India. 2016
- 2016 IEEE TENCON2016, IEEE Region 10, Marina Bay Sands, Singapore. 2016
- 2016 International Conference on Electrical & Electronic Technology (ICEETech2016), Faculty of Engineering, Universiti Putra Malaysia. 2016
- 2016 3rd Annual International Conference on Computer Science and Applications (CSA2016), Shenzhen, China. 2016
- 2016 1st International Conference on Recent Advances in Electronics and Communication Technology (ICRAECT 2017). 2017
- 2017 1st International Symposium on Smart Grid Technologies: Recent Initiatives, Challenges & Opportunities. 2017
- 2017 11th International Power Engineering and Optimization Conference (PEOCO2017). 2017
- 2017 Applied Mathematics in Science and Engineering International Conference (APPEMSE2017). 2017
- 2017 IEEE International Conference on Smart Grid and Smart Cities (ICSGSC 2017). 2017





- 2017 IEEE Conference on Energy Conversion (CENCON 2017) 2017
  - 2017 IEEE Region 10 Conference (TENCON 2017) 2017
  - 2017 IEEE 15th Student Conference on Research and Development (SCOReD 2017) – Publication Chair 2017
  - 2018 2nd International Conference on Smart Grid and Smart Cities (ICSGSC 2018) and 2018 2nd International Conference on Green Energy (ICOGE 2018) 2018
  - 2018 International Conference on Clean Energy and Electrical Systems (CEES 2018) 2018
  - 2018 International Research Conference on Engineering & Science (IRCES2018) 2018
  - 2018 12th International Power Engineering, Optimization and Computing Conference (PEOCO2018) 2018
  - 2018 10th International Conference on Robotics, Vision, Signal Processing & Power Applications (RoVISPP2018) 2018
  - 2018 IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE 2018) 2018
  - 2018 IEEE International Conference on Automatic Control and Intelligent Systems (I2CACIS 2018) 2018
13. Journal Manuscript Reviewer for:
- IJET/Pertanika journal, UPM. 2007 to date
  - International Journal of Electrical Power and Energy Systems (Elsevier). Active
  - Majlesi Journal of Electrical Engineering (MJEE), Islamic Azad University Majlesi Branch. Jul 2012 to date
  - Journal of Engineering Science and Technology (Kyushu Institute of Technology). Active
  - International Journal of Physical Sciences (Academic Journals - Open Access Journals). Active
  - International Transactions on Electrical Energy Systems (formerly European Transactions on Electrical Power) (John Wiley & Sons). Active
  - IET Generation, Transmission & Distribution (Institution of Engineering and Technology, IET). 2014 to date
  - Journal of Electrical Systems, Q3 IF, (Engineering and Scientific Research Groups (ESRGroups) – from AMPE2015. Active
  - Journal of Power and Energy Systems (The Chinese Society for Electrical Engineering (CSEE), IEEE and China Electric Power Research Institute (CEPRI)). Feb 2016 to date
  - Journal of Experimental & Theoretical Artificial Intelligence (Taylor & Francis) May 2016 to date
  - IET Science, Measurement & Technology (Institution of Engineering and Technology, IET). July 2016 to date
  - International Journal of Engineering Science and Technology (Elsevier) Sep 2016 to date
  - Indonesian Journal of Electrical Engineering and Computer Science (Institute of Advanced Engineering and Science, IAES) Jun 2018 to date
14. Conference Manuscript Reviewer for:
- World Engineering Congress 2007 (WEC 2007), Penang, Malaysia, 5-9 August 2007. 2007
  - Australia Australasian Universities Power Engineering Conference (AUPEC2006), Victoria University, 10–13 December, 2006. 2006
  - 2012 IEEE International Power Engineering and Optimization Conference (PEOCO2012), April 2012. 2012
  - 4th International Conference on Intelligent and Advanced Systems (ICIAS2012), Feb 2012. 2012





- 2013 IEEE International Power Engineering and Optimization Conference (PEOCO2013), April 2013. 2013
- 2013 IEEE Conference on Clean Energy and Technology (CEAT 2013), 18–20 Nov 2013. 2014
- 2014 Innovative Smart Grid Technologies Asia Conference (ISGT Asia), 20–23 May, 2014, Kuala Lumpur, Malaysia. 2014
- 2014 IEEE International Power and Energy Conference (PECON 2014) 2014
- 2014 IEEE Student Conference on Research and Development IEEE (SCOReD 2014) 2015
- 2015 10th Asian Control Conference (ASCC 2015), 31 May – 3 June 2015, Kota Kinabalu, Sabah, Malaysia. 2015
- 2015 7th International Conference on Sustainable Agriculture for Food, Energy and Industry (ICSAFEI 2015), 25–27 August 2015, Universiti Putra Malaysia. 2015
- 2015 Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2015), Malaysian Technical Universities Network (MTUN), 11–13 October 2015, Johor Bahru, Malaysia. 2015
- 2015 International Conference on Advanced Mechanics, Power and Energy (AMPE 2015), 5-6 December 2015, Hotel Holiday Inn Kuala Lumpur, Glenmarie, Malaysia. 2016
- 2016 IEEE TENCON2016 2016
- 2016 IEEE International Power and Energy Conference (PECON 2016) 2016
- 2016 Progress in Applied Mathematics in Science and Engineering (PIAMSE'2016) 2017
- 2017 11th International Power Engineering and Optimization Conference (PEOCO2017) 2017
- 2017 IEEE Conference on Energy Conversion (CENCON 2017) 2017
- 2017 IEEE Region 10 Conference (TENCON 2017) 2017
- 2017 IEEE 15th Student Conference on Research and Development (SCOReD 2017) 2018
- 2018 12th International Power Engineering, Optimization and Computing Conference (PEOCO2018) 2018
- 2018 10th International Conference on Robotics, Vision, Signal Processing & Power Applications (RoVISPP2018) 2018
- 2018 International Conference on Clean Energy and Electrical Systems (CEES 2018) 2018
- 2018 IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE 2018)
- 15. Technical Editor for:
  - Asian Journal of Scientific Research (publisher: Asian Network for Scientific Information). 2011 to date
  - Asian Journal of Artificial Intelligence (publisher: Asian Network for Scientific Information) 2011 to date
  - Journal of Applied Sciences (publisher: Asian Network for Scientific Information) 2011 to date
- 16. Editorial Board Member / Review Editor for:
  - Editorial Board Member of Frontiers in Energy Systems and Policy (publisher: Frontiers). Oct 2013 to date
  - Editorial Board Member of Annals of Applied Mathematics and Management (publisher: xx to date
  - Editorial Board Member of the International Journal of Research Innovations in Electrical Engineering (publisher: SPRG Publication). Mar 2017 to date
  - Editorial Board Member of the International Journal of Research Innovations in Knowledge Discovery & Mining (publisher: SPRG Publication). Mar 2017 to date





- Editorial Board Member of Journal of Power Systems and Process Control (JPSPC) - (*under application*) Jul 2017 to date
  - Editorial Board Member of International Journal of Engineering Research in Electrical and Electronic Engineering (IJEREEE) (publisher: IFERP, Institute for Engineering Research and Publication) Oct 2017 to date
17. Research Proposal Evaluator/Reviewer for:
- "The 2011 Schneider Electric Malaysia University Challenge" program, Department of Electrical and Electronics Engineering, Fac. Of Eng., UPM and Schneider Electric Malaysia. 2011
  - Fundamental Research Grant Scheme (FRGS) application by Kolej Universiti Kejuruteraan & Teknologi Malaysia (KUKTEM). UPM Geran Putra application. 2006
  - UPM Geran Putra application. 2017 to date
    - a. Geran Putra Berimpak
    - b. Geran Putra Siswazah
  - Taylor's Research Grant Scheme (Centre for Research Management, Taylor's University Malaysia) 2017
  - Yayasan Universiti Teknologi Petronas Fundamental Research Grant (FRG) 2018 – 2023
  - Olympia College (Dr Syed Zahurul Islam) in collaboration with UPM Geran Putra Berimpak 2018
  - COMSATS Institute of Information Technology, Lahore, Pakistan in collaboration with UPM 2018
18. Advising Officer for:
- UPM Postgraduate Study Exhibition, 9–10 Jun 2012. 9 – 10 Jun 2012
19. Committee Member for:
- Committee Member 'Jawatankuasa Petugas Pembangunan' (Development Task Committee) UPM – Appointment by Deputy Vice Chancellor (Jaringan Industri & Masyarakat) UPM 9 Oct 2017 – to date
  - UPM Consultant Evaluation for Physical Development/Study – Appointment by Vice Chancellor UPM. 10 Jan 2012 to 9 Jan 2015,
  - Specialized Field Specialist (Pakar Bidang Khusus) in Power System Protection and Building Electrical Installation Works for Value Engineering Lab for infrastructural projects in UPM – Appointment by Vice Chancellor UPM. 3 Jun 2015 to 2 Jun 2018
  - Accreditation review of Bachelor of Electrical Engineering Program by the Engineering Accreditation Council (EAC) Malaysia (by virtue of being Head of Academic Power Unit). 1 Feb 2012 to date
  - Faculty of Engineering Open Day – Final Year Project Exhibition', Department of Electrical and Electronic Engineering, Faculty of Engineering (25 Jun 2013). 2013 to date
  - 'Faculty of Engineering Open Day – Final Year Project Exhibition', Department of Electrical and Electronic Engineering, Faculty of Engineering (26 Jun 2012). 2013
  - Proposal Evaluator for the "2011 Schneider Electric Malaysia University Challenge". 2012
  - Electricity Supply Disturbance Investigation, Block C laboratories, Eng. Fac., UPM. 2011
20. Lab. Coordinator for:
- Electrical Power Laboratories, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM.
    - Lab D2.3 3 Nov 2016 - to date
    - Lab D2.3 16 Feb 2011 to Dec 2014
    - Lab KEE 008 19 Sep 2006 to Jan 2007
    - Lab KEE 009 17 Aug 2005 to Sep 2006
21. Webmaster (Publicity Representative), Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM. 17 Dec 2005 to Jan 2007
22. Academic Advisor for:
- Electrical and Electronic Eng. BSc students, UPM. 2005 to date
23. Examiner for:



- Industrial Training of final year students – visiting/report examiner at training venues. 2005 to date
- Final Year Projects of Bachelor's degree students. 2006 to date
- MSc and PhD theses (local and international) 2014 to date
- 24. Supervisor and Co-Supervisor for BSc, MSc and PhD students, both local and international. 2011 to date
- 25. Advisor for UPM Faculty of Engineering Mural 4 Aug 2017 - to date
- 26. Poster Judge for:
  - Judge for poster presentation during 5th International Symposium on Applied Engineering and Sciences (SAES2017), TNCPI Building), UPM. 15 Nov 2017
  - Poster Projek Tahun Akhir, Program Kejuruteraan Elektrikal dan Elektronik, Jabatan Kejuruteraan Elektrikal, Elektronik dan Sistem (JKEES), Fakulti Kejuruteraan dan Alam Bina, Universiti Kebangsaan Malaysia. 21 May 2017
  - Poster Projek Tahun Akhir, Program Kejuruteraan Elektrikal dan Elektronik, Jabatan Kejuruteraan Elektrikal dan Elektronik (KEE), Fakulti Kejuruteraan, Universiti Putra Malaysia. 2012 - to date

## Publications

### Journals

1. Al-Ogalli, A. S., Aris, I., **Othman, M. L.**, Azis, N., Isa, D., Sabry, A. H., Yap Hoon. Design and Experimental Results of Universal Electric Vehicle Charger Using DSP. TELKOMNIKA Telecommunication, Computing, Electronics and Control, 16 (4), pp. 1435-1444, 2018. (SCOPUS indexed)
2. Al-Jilibawi, A. H., **Othman, M. L.**, Aris, I., Bahari, S., Al-Huseiny, M. S. Efficient Soft Sensor Modelling for Advanced Manufacturing Al-Huseiny Systems by Applying Hybrid Intelligent Soft Computing Techniques. *International Journal of Simulation: Systems, Science & Technology*, 19 (3), pp. 15.1-15.7, 2018. (SCOPUS indexed)
3. Tariq, W, **Othman, M. L.**, Abdul Wahab, N. I., Akhtar, S. Smart Monitoring and Controlling of Frequency Deviation by Using MATLAB GUI and ARDUINO DAQ Card. *Indonesian Journal of Electrical Engineering and Computer Science*, 11 (1), pp. 224-232, 2018. (SCOPUS indexed)
4. Shehu, M. S., Misron, N., **Othman, M. L.**, Hanamoto, T. Power Density Evaluation of a Novel Double-Stator Magnetic Geared Permanent Magnet Generator. *Progress in Electromagnetics Research B*, 80, pp. 19–36, 2018. (SCOPUS indexed)
5. Ahmadipour, M., Hizam, H., **Othman, M. L.**, Mohd Radzi, M. A. Anti-Islanding Protection Mechanisms For Distributed Energy Resources In Distribution Grid Using Soft Computing Techniques: A Review. *Energy Systems*, ?? (?), pp. ???-???, 2018.
6. Ali, N. H., Ali, B. M., Basir, O., **Othman, M. L.**, Hashim, F. Performance of Communication Networks for Integrity Protection Systems Based on Travelling Wave with IEC 61850. *International Journal of Electrical Power and Energy Systems*, 95 (), pp. 664–675, 2018. (IF: 3.289, Q1).
7. Ab. Halim, H. H., Mariun, N., **Othman, M. L.**, Mailah N. F. Advanced Metering Infrastructure And An Implementation In Malaysia. *FEIIC International Journal of Engineering and Technology*, 14 (1), pp. 40-45, 2017.
8. Tariq, W, Othman, M. L., Mustafa, A. Standby Mode Minimization and Periodic Controlling for Efficient Building Energy Management System Using Fuzzy Logic and Image Processing Tool. *Asian Journal of Engineering, Sciences & Technology*, 2 (1), pp. 1-9, 2017.
9. Shehu, M. S., Misron, N., **Othman, M. L.**, Hanamoto, T. Power Characteristics Analsis of a Novel Double-Stator Manetic Geared Permanent Magnet Generator. *ENERGIES*, 10 (), pp. 2048, 2017. (IF: 2.262 (2016), Q2)
10. Aker, E. E., **Othman, M. L.**, Abdul Wahab, N. I., Hizam, H., Emmanuel, O. Adverse Impact Of STATCOM On The Performance Of Distance Relay. *Indonesian Journal of Electrical Engineering and Computer Science*, 6 (3), pp. 528-536, 2017. (SCOPUS indexed)
11. Al-Ogalli, A. S., Aris, I., **Othman, M. L.**, Azis, N., Isa, D., Sabry, A. H., Yap Hoon. Design and Development of Three Levels Universal EV Charger Based on Integration of VOC and SPWM Techniques. *Journal of Computational and Theoretical Nanoscience* 14 (10), pp. 4674-4685, 2017. (IF: 1.666 (2015), Q2).
12. Hadi, M. K., **Othman, M. L.**, Abdul Wahab, N. I. A Special Protection and Control Scheme for Transmission Line Overloading Elimination Based on Hybrid Differential



- Evolution/Electromagnetism-Like Algorithm. *Journal of Electrical Engineering & Technology*, 12 (5), pp. 1729-1742, 2017. (IF: 0.679 (2015), Q3)
13. Ali, N. H., Ali, B. M., Basir, O., **Othman, M. L.**, Hashim, F., Aker, E. Opportunity for Using WLAN with IEC 61850 and the Future of this Protocol. *Pertanika Journal of Science and Technology*, 25 (1), pp; 27-40, 2017. (SCOPUS indexed)
  14. Abdul Wahab, N. I, Hammadi, A. S., **Othman, M. L.** Optimal Location and Size of Distributed Generation to Reduce Power Losses based on Differential Evolution Techniques. *Pertanika Journal of Science and Technology*, 25 (1), pp; 171-180, 2017. (SCOPUS indexed)
  15. Matsukawa, Y., **Othman, M. L.**, Watanabe, M., Mitani, Y. Reliably Optimal PMU Placement using Disparity Evolution-based Genetic Algorithm. *Pertanika Journal of Science and Technology*, 25 (1), pp; 105-112, 2017. (SCOPUS indexed)
  16. **Othman, M. L.**, Hadi, M. K., Abdul Wahab, N. I. A Corrective Action Scheme for Contingency Monitoring of Transmission Line Overloading. *Pertanika Journal of Science and Technology*, 25 (1), pp; 131-140, 2017. (SCOPUS indexed)
  17. Shehu, M. S., Mison, N., Mariun, N., **Othman, M. L.**, Hanamoto, T. Torque Distribution Characteristics of a Novel Double Stator Permanent Magnet Generator Integrated With a Magnetic Gear. *ENERGIES*, 10 (2), pp. 2-26, 2016. (IF: 2.077, Q2)
  18. Turki, A. Q., Mailah, N. F., **Othman, M. L.**, Sabry, A. H. Transmission Lines Modeling Based On Vector Fitting Algorithm And Rlc Active/Passive Filter Design. *International Journal of Simulation Systems, Science & Technology*, 17 (42), pp. xx-xx, 2016. (SCOPUS indexed)
  19. Shehu, M. S., Mison, N., Mariun, N., **Othman, M. L.**, Hanamoto, T. A Novel Double-Stator Permanent Magnet Generator Integrated with a Magnetic Gear. *Progress in Electromagnetics Research M*, 49, pp. 69-80, 2016. (SCOPUS indexed)
  20. Ali, N. H., Ali, B. M., Basir, O., **Othman, M. L.**, Hashim, F. Protection of Smart Substation Based on WLAN Complies with IEC61850 Using Travelling Wave Analysis. *Electric Power Systems Research*, xx (x), pp. xxx-xxx, 2016. DOI: 10.1016/j.epsr.2016.07.004 (IF: 2.066) – IN PRESS
  21. Al-Ogalli, A. S., Aris, I., Maghami, M. R., **Othman, M. L.**, Azis, N. Third Harmonic Injection Feedback to Input Technique for Input Current Improvement in Phase Bridge Rectifier. *Journal of Electrical Systems*, (AMPE2015), pp. 128-139, 2016. (SCOPUS indexed)
  22. Ali, N. H., Ali, B. M., Basir, O., **Othman, M. L.**, Hashim, F. Second Generation IEEE802.11N Performance for IEC61850-Based Substation Automation System. *Journal of Theoretical and Applied Information Technology*, 85 (2), pp. 239-251, 2016. (SCOPUS indexed)
  23. Kaigama, M. A, Abdul Wahab, N. I., **Othman, M. L.**, Mohammed, S. K. Electrical Grid Stability Enhancement Using Smart Home Frequency-Response Grid -Friendly Appliance System. *Journal of Electrical Systems*. 12 (1), pp. 216-229, 2016. (SCOPUS indexed)
  24. Zahurul, S., Mariun, N., Grozescu, I. V., Tsuyoshi, H., Mitani, Y., **Othman, M. L.**, Hizam, H., Abidin, I. Z. Future Strategic Plan Analysis for Integrating Distributed Renewable Generation to Smart Grid through Wireless Sensor Network: Malaysia Prospect. *Renewable and Sustainable Energy Reviews (Elsevier)*, 53, pp. 978-992, 2016. (IF: 5.901)
  25. Othman, M. M., Hilmi Harun, M. H., Salim, N. A., **Othman, M. L.** Sequential Process Of Feature Extraction Methods For Artificial Neural Network In Short Term Load Forecasting. *ARPN Journal of Engineering and Applied Sciences*, 10 (19), pp. 8830-8838, 2015. (SCOPUS indexed)
  26. Ali, N. H., Ali, B. M., Basir, O., **Othman, M. L.**, Hashim, F. IEC 61850-Based WLAN Peer-To-Peer Feeder Protection Improvement in Smart Grid Substation Automation System. *Journal of Theoretical and Applied Information Technology*, 80 (3), pp. 510-520, 2015. (SCOPUS indexed)
  27. **Othman, M. L.**, Olufemi, O. E., Hizam, H., Othman, M. M. Protection Coordination Improvement on Interconnected Distribution System with Smart Power Supply Sources. *Agriculture and Agricultural Science Procedia (Elsevier)*, ?? (??), pp. ??-??, 2015 (accepted). (SCOPUS indexed).
  28. Olufemi, O. E., **Othman, M. L.**, Hizam, H., Othman, M. M. Time–Current Characteristic Curve Prediction for Directional Overcurrent Relays in interconnected Network using Artificial Neural Network. *ARPN Journal of Engineering and Applied Sciences*, 10 (22), pp. 10679-10685, 2015. (SCOPUS indexed)
  29. Yahya, M. A., Othman, M. M., Abdul Razak M. A., Zakaria, Z., Musirin, I., Kari, M. N., Osman, M. F., Abu Hassan, M. Z., Mohd Dzin, S. H., Azrae, B., Wan Ismail, W. S., Salleh, M. H., Jafar, S., **Othman, M. L.** Ant Colony Optimization Technique in Optimal Capacitor Placement and Sizing Problem in Unbalanced Electrical Distribution System. *Applied Mechanics and Materials: Recent Trends in Power Engineering*, 785, pp. 78-82, 2015. (SCOPUS indexed)
  30. Olufemi, O. E., **Othman, M. L.**, Hizam, H., Othman, M. M. Artificial Neural Network Application in Optimal Coordination of Directional Overcurrent Protective Relays in Electrical Mesh Distribution

- Network. Applied Mechanics and Materials: Recent Trends in Power Engineering, 785, pp. 48-52, 2015. (SCOPUS indexed).
31. Tariq, W., **Othman, M. L.**, Mariun, N., Abdul Wahab, N. I. Standby Mode Minimization and Periodic Controlling for Efficient Building Energy Management System Using Fuzzy Logic and Image Processing Tool. Anais da Academia Brasileira de Ciências (Annals of the Brazilian Academy of Sciences), 2015 (accepted). (IF: 0.875).
  32. Zahurul, S., Mariun, N., **Othman, M. L.**, Hizam, H., Valeriu, I., Zainal, I., Tsuyoshi, H., Mitani, Y. Analytical Modeling Based on Experimental Data for Photovoltaic Powered Battery in Smart Grid. Jokull Journal, 2015 (accepted). (IF: 1.63).
  33. Tariq, W., **Othman, M. L.**, Mariun, N., Abdul Wahab, N. I. What Smart Building Management System can offer to overcome Power and Economical Wastage : Brief Discussion by Taking Malaysian Power Infrastructure as a Sample. The SIJ Transactions on Industrial, Financial & Business Management, 3 (3), pp. 27-31, 2015.
  34. Ali, N.H., Mohd Ali, B., Abdala, M. A., **Othman, M.L.**, Hashim, F. Comparisons Process-to-Bay Level Peer-to-Peer Network Delay in IEC 61850 Substation Communication Systems. Journal of Electrical System and Information Technology (Elsevier), 1 (3), pp. 266-275, 2014. (SCOPUS indexed).
  35. Rezaei, N., **Othman, M. L.**, Abdul Wahab, N. I., Hizam, H., Olufemi, O. E. Wind Power Plants Protection Using Overcurrent Relays. Universal Journal of Electrical and Electronic Engineering, 2(8), pp. 311-319, 2014.
  36. Badar, Q., **Othman, M. L.**, Mohd Radzi, M. A., Abdul Wahab, N. I. Wireless Communication of Transformer Differential Protection. Journal of Theoretical and Applied Information Technology, 2014 (accepted). (SCOPUS indexed)
  37. **Othman, M. L.**, Aris, I., Abdul Wahab, N. I. Modeling and Simulation of Industrial Numerical Distance Relay Aimed at Knowledge Discovery in Resident Event Report. Simulation: Transactions of Society for Modelling and Simulation International, 90(6), pp. 660-686, 2014. (IF: 0.737).
  38. Mirfendereski, S., Abdul Wahab, N. I., Jasni, J., **Othman, M. L.** Mitigation Of Power System Small Signal Oscillation Using Posicast Controller And Evolutionary Programming. Journal of Engineering Science and Technology, 10 (1), pp. 50–67, 2014. (SCOPUS indexed)
  39. Rezaei, N., **Othman, M. L.**, Abdul Wahab, N. I., Hizam, H., Maghami, M., Hajighorbani, S., Olufemi, O. E. Optimal Coordination of Overcurrent Relays in Power Systems Protection: A Review. Jokull Journal, 64(4), pp. 159-183, 2014. (IF: 1.00).
  40. Islam, S. Z., Mariun, N., **Othman, M. L.**, Hizam, H., Zainal, I. Dynamic Communication for Smart Metering: Leading Edge for Sustainable Energy and PHEV. Journal of Advanced Materials Research, 805–806, pp. 1107–1115, 2013. (SCOPUS indexed).
  41. Islam, S. Z., Mariun, N., Grozescu, V., **Othman, M. L.**, Hizam, H., Mohd Radzi, M. A., Izham. Development of a prototype for remote current measurements of PV panel using WSN. International Journal of Smart Grid and Clean Energy, 3 (2), pp. 241-246, 2013.
  42. **Othman, M. L.**, Aris, I. Novel Rule Base Maintenance of Protective Relay Analysis Expert System. European Transactions on Electrical Power (International Transactions on Electrical Energy Systems) (John Wiley & Sons, Ltd), 2013 (submitted). (IF: 0.63).
  43. **Othman, M. L.**, Aris, I., Othman, M. R., Osman, H. Inconsistent decision system: rough set based timing characteristic analyses of distance protective relay. Applied Soft Computing (Elsevier), 12 (8), pp. 2053–2062, 2012. (IF: 2.612)
  44. **Othman, M. L.**, Aris, I., Othman, M. R., Osman, H. Rough-Set-and-Genetic-Algorithm Based Data Mining and Rule Quality Measure to Hypothesize Distance Protective Relay Operation Characteristics from Relay Event Report. Int. J. Electrical Power and Energy Systems (Elsevier), 33, pp. 1437-1456, 2011. (IF: 2.212)
  45. **Othman, M. L.**, Aris, I., Abdullah, S. M., Ali, M. L., Othman, M. R. Knowledge discovery in distance relay event report: a comparative data mining strategy of rough set theory with decision tree. IEEE Trans. Power Delivery, 25 (4), pp. 2264-2287, 2010. (IF: 1.415)
  46. **Othman, M. L.**, Aris, I., Abdullah, S. M., Ali, M. L., Othman, M. R. Making implicit knowledge of distance protective relay operations and fault characteristics explicit via rough set based discernibility relationship. Journal of Applied Science Research, 5 (10), pp. 1698-1708, 2009. (SCOPUS indexed)
  47. **Othman, M. L.**, Aris, I., Abdullah, S. M., Ali, M. L., Othman, M. R. Othman. Discovering decision algorithm from a distance relay event report. Journal of Applied Science, 9 (19), pp. 3433-3453, 2009. (SCOPUS indexed)

48. **Othman, M. L.**, Aris, I., Abdullah, S. M., Ali, M. L. Othman, M. R. Discovering decision algorithm from a distance relay event report. *European Journal of Scientific Research*, 3 (1), pp. 30-56, 2009. (SCOPUS indexed)
49. **Othman, M. L.**, Aris, I., Mariun, N., Sahbudin, R. K. Z. Knowledge-based power sytem protection design courseware. *Journal of Applied Science*, 6 (15), pp. 2963-2977, 2006. (SCOPUS indexed).

### Conference Proceedings

1. Al-Jlibawi, A., **Othman, M. L.**, Aris, I., Bahari, S., Al-Huseiny M. S. A Hybrid Intelligent Sensor for Advanced Manufacturing Control Systems. 8th International Conference on Intelligent Systems, Modelling and Simulation 2018 (ISMS2018), Pacific Regency hotel, Kuala Lumpur, Malaysia, 8–10 May 2018, pp. xxx-xxx.
2. Olufemi, O. E., **Othman, M. L.**, Hizam, H., Othman, M. M. Faults Signature Extraction in Wind Farm Integrated Transmission Line Topology. 2018 International Power Engineering, Optimization and Computing Conference (PEOCO2018), IBIS Hotel, Melaka, Malaysia, 14-15 July 2018, pp. xxx-xxx.
3. Tariq, W., **Othman, M. L.**, Abdul Wahab, N. I., Hassim, S., Ebrahim, M. A Review on ESCO's Challenges and Project Management as a Solving Tool. 2018 International Power Engineering, Optimization and Computing Conference (PEOCO2018), IBIS Hotel, Melaka, Malaysia, 14-15 July 2018, pp. xxx-xxx.
4. Tariq, W., **Othman, M. L.**, Abdul Wahab, N. I., Akhtar, S. Smart Monitoring and Controlling of Frequency Deviation by Using MATLAB GUI and ARDUINO DAQ Card. 2018 International Conference on Electrical Engineering and Computing (ICEECComp2018), IBIS Hotel, Melaka, Malaysia, 24-25 March 2018, pp. xxx-xxx.
5. Matsukawa, Y., Watanabe, M., Mitani, Y., **Othman, M. L.** Two-Phase Optimal PMU Placement Considering Complete Topological Observability Level for Single Line Contingency. Symposium on Applied Engineering and Sciences (SAES2017), Universiti Putra Malaysia, 14–15 Nov 2017, pp. xxx-xxx.
6. Matsukawa, Y., Watanabe, M., Mitani, Y., **Othman, M. L.** Two-Phase Optimization of Phasor Measurement Unit Placement Based on Reliability of Observability Considering N-1 Line Contingency. The International Conference on Electrical Engineering (ICEE2017), Weihai, China, 4–7 July 2017, pp. 1/6-2/6.
7. Mohamad, A. S., Mohd Radzi, M. A., Mailah, N. F., **Othman, M. L.** Analysis of Switches Blocking Voltages in A Voltage Taps Based Cascaded Multilevel Inverter Topology. 3rd IEEE Conference on Energy Conversion (CENCON 2017), Universiti Teknologi Malaysia, Kuala Lumpur Campus, 30-31 Oct 2017, pp. xx-xx.
8. Tariq, W, **Othman, M. L.**, Mustafa, A. Standby Mode Minimization and Periodic Controlling For Efficient Building Energy Management System Using Fuzzy Logic and Image Processing Tool. 2nd International Conference on Emerging Trends in Engineering, Sciences and Technology, ICEEST-2017, Iqra University, Karachi, Pakistan, 25-26 August 2017, pp. 44.
9. Aker, E., **Othman, M. L.**, Emmanuel, O., Aris, I., Abdul Wahab, N. I., Hizam H. Adverse Impact of STATCOM on the Performance of the Distance Relay. 2017 11th International Power Engineering and Optimization Conference (PEOCO2017), Holiday Inn, Melaka, Malaysia, 8-9 April 2017, pp. xxx-xxx.
10. Hadi, M. K., **Othman, M. L.**, Abdul Wahab, N. I. Differential Evolution Based Special Protection and Control Scheme for Contingency Monitoring of Transmission Line Overloading. 2nd International Conference of Reliable Information and Communication Technology 2017 (IRICT 2017), Pulai Springs Resort, Pulai, Johor, Malaysia, 23-24 April 2017, pp. xxx-xxx.
11. Al-Ogalli, A. S., Aris, I., **Othman, M. L.**, Azis, N., Isa, D., Sabry, A. H., Yap Hoon. New technique for decreasing of total harmonic distortion of three-phases bridge rectifier by using the method of harmonic injection. 2016 IEEE Conference on Systems, Process and Control (ICSPC 2016) Melaka, Malaysia, 16-18 Dec 2016, pp. 248-253.
12. Shehu, M. S., Misron, N., Mariun, N., **Othman, M. L.**, Hanamoto, T. Power Speed Characteristics of a Novel Double-Stator PM Generator Integrated with a Magnetic Gear. 2016 IEEE 6th International Conference on Power and Energy (PECON 2016), Hatten Hotel Melaka, Melaka, Malaysia, 28-29 Nov 2016, pp. xxx-xxx.
13. Hadi, M. K., **Othman, M. L.**, Abdul Wahab, N. I., Hammadi, A. S., Turki, A. Q. Hybrid Differential Evolution-and-Electromagnetism-Like Algorithm for Transmission Line Protection. World Research & Innovation Convention on Engineering & Technology 2016 (WRICET2016), Langkawi, Kedah, Malaysia, 24-25 Oct 2016, pp. 173-181.

14. Abdul Wahab, N. I., Hammadi, A. S., **Othman, M. L.** Optimal Location and Sizing of Distributed Generation to Improve Distribution System Performs based on Optimization Technique. World Research & Innovation Convention on Engineering & Technology 2016 (WRICET2016), Langkawi, Kedah, Malaysia, 24-25 Oct 2016, pp. 188-193.
15. Hammadi, A. S., Abdul Wahab, N. I., **Othman, M. L.**, Hadi, M. K., Turki, A. Q. Effect of Distributed Generation Model to Reduce Power Losses and Improve Voltage Profile of Distribution System. World Research & Innovation Convention on Engineering & Technology 2016 (WRICET2016), Langkawi, Kedah, Malaysia, 24-25 Oct 2016, pp. 182-187.
16. Ab. Halim, H. H., Mariun, N., **Othman, M. L.**, Mailah, N. F. Advanced Metering Infrastructure and an Implementation in Malaysia. World Research & Innovation Convention on Engineering & Technology 2016 (WRICET2016), Langkawi, Kedah, Malaysia, 24-25 Oct 2016, pp. 205-210.
17. Turki, A. Q., Mailah, N. F., **Othman, M. L.**, Hammadi, A. S., Hadi, M. K. Alhamdawee, E. Transmission Line Modelling Based on Vector Fitting Algorithm. World Research & Innovation Convention on Engineering & Technology 2016 (WRICET2016), Langkawi, Kedah, Malaysia, 24-25 Oct 2016, pp. 194-198.
18. Ali, N. H., Ali, B. M., **Othman, M. L.**, Hashim, F., Basir, O., Aker, E. IEC 61850 for Substation Automation System Benefits and Future. International Conference on Electrical & Electronic Technology (ICEETech2016), Faculty of Engineering, Universiti Putra Malaysia, 22-26 Aug 2016, pp. xxx-xxx. (accepted)
19. Hammadi, A. S., Abdul Wahab, N. I., **Othman, M. L.** Optimal Location and Size of Distributed Generation to Reduce Power Losses based on Differential Evolution Techniques. International Conference on Electrical & Electronic Technology (ICEETech2016), Faculty of Engineering, Universiti Putra Malaysia, 22-26 Aug 2016, pp. xxx-xxx. (accepted)
20. Matsukawa, Y., **Othman, M. L.**, Watanabe, M., Mitani, Y. Reliably Optimal PMU Placement using Disparity Evolution-based Genetic Algorithm. International Conference on Electrical & Electronic Technology (ICEETech2016), Faculty of Engineering, Universiti Putra Malaysia, 22-26 Aug 2016, pp. xxx-xxx. (accepted)
21. Hadi, M. K., **Othman, M. L.**, Abdul Wahab, N. I. A Novel Corrective Action Scheme for Contingency Monitoring of Transmission Line Overloading. International Conference on Electrical & Electronic Technology (ICEETech2016), Faculty of Engineering, Universiti Putra Malaysia, 22-26 Aug 2016, pp. xxx-xxx. (accepted)
22. Turki, A. Q., Mailah, N. F., **Othman, M. L.**, Sabry, A. H. Transmission lines modeling based on RLC passive filter design and vector fitting algorithm. International Conference on Electrical & Electronic Technology (ICEETech2016), Faculty of Engineering, Universiti Putra Malaysia, 22-26 Aug 2016, pp. xxx-xxx. (accepted)
23. Khudher, S. M., Aris, I., **Othman, M. L.**, Mailah, N. F. AC/DC Uncontrolled Converters Harmonic Analysis for Electric Vehicles Charging Station. International Conference on Electrical & Electronic Technology (ICEETech2016), Faculty of Engineering, Universiti Putra Malaysia, 22-26 Aug 2016, pp. xxx-xxx. (accepted)
24. Turki, A. Q., Mailah, N. F., **Othman, M. L.** Transmission Lines Modelling Based On Vector Fitting Algorithm And RLC Active/Passive Filter Design. 2016 10th International Power Engineering and Optimization Conference (PEOCO2016), Hotel Holiday Inn Kuala Lumpur, Glenmarie, Shah Alam, Malaysia on 26 - 27 Mar 2016, pp. xxx-xxx.
25. Kaigama, M., Abdul Wahab, N. I., **Othman, M. L.** Electrical Grid Stability Enhancement using Smart Home Frequency-response Grid -Friendly Appliance System. 2015 International Conference on Advanced Mechanics, Power and Energy (AMPE2015), Hotel Holiday Inn Kuala Lumpur, Glenmarie, Shah Alam, Malaysia, 5-6 Dec 2015, pp xxx-xxx.
26. Al Ogoili, A. S., Aris, I., **Othman, M. L.**, Maghami, M. R. The Method of Third Harmonic Injection Feedback to Input of Three Phase Bridge Rectifier to Improve the Input Current. 2015 International Conference on Advanced Mechanics, Power and Energy (AMPE2015), Hotel Holiday Inn Kuala Lumpur, Glenmarie, Shah Alam, Malaysia, 5-6 Dec 2015, pp xxx-xxx.
27. Maghami, M. R., Gomes C., Hizam, H., **Othman, M. L.** Design of 24 Hour Energy Generation from Renewable Energy. 2015 9th European Modelling Symposium (EMS2015), Madrid, Spain, 6-8 Oct 2015. pp. 284.
28. Olufemi, O. E., **Othman, M. L.**, Hizam, H., Othman, M. M. Time-Current Characteristic Prediction for Directional Overcurrent Relays in Interconnected Network Using Artificial Neural Network. Joint International Conference on Electrical Control and Computer Engineering 2015 (InECCE 2015), Bukit Gambang Resort City, Pahang, Malaysia, 27-28 Oct 2015, pp. xxx-xxx.
29. Ali, N.H., Mohd Ali, B., Basir, O., **Othman, M.L.**, Hashim, F. WLAN Oriented Optimization of Process Bus in IEC 61850 Based Substation Communication Network. 2015 3rd International

- Renewable and Sustainable Energy Conference (IRSEC'15), Marrakech & Ouarzazate, Morocco, 10-13 Dec 2015, pp. **xx-xx**.
30. Islam, S. Z., Mariun, N., Kah, L., Hizam, H., **Othman, M. L.**, Zainal Abidin, I., Norman, Y. A Novel Zigbee-based Data Acquisition System for Distributed Photovoltaic Generation in Smart Grid. IEEE PES Innovative Smart Grid Technologies in Asia (ISGT Asia 2015), Bangkok, Thailand, 4-6 Nov 2015, pp. **xxx-xxx**.
  31. Islam, S. Z., Mariun, N., **Othman, M. L.**, Hizam, H., Zainal Abidin, I., Toudeshki, A. Ambient Temperature Effect on Amorphous Silicon (A-Si) Photovoltaic Module Using Sensing Technology. 2015 9th International Conference on Sensing Technology (ICST2015), Auckland, New Zealand, 8-10 Dec 2015, pp. 247-253.
  32. Islam, S. Z., Mariun, N., **Othman, M. L.**, Hizam, H., Zainal Abidin, I. Outcome Based Approach for FYP Project: A Quality Assurance Protocol for Electrical Engineering Education in Malaysia. FEIIC International Conference on Engineering Education & Research 2015 (FICEER2015), Madinah, Kingdom of Saudi Arabia, 19-21 Dec 2015, pp. **xxx-xxx**.
  33. **Othman, M. L.** Intelligent Knowledge Discovery for Decision Support System in Protection Performance Analysis. 2015 IEEE International Symposium on Advances in Power Distribution Engineering: Distributed Generation, MicroGrid and Renewable Integration, the National Institute of Engineering, Mysuru, Karnataka, India. 28-29 August, 2015, pp. 9-10.
  34. Kaigama, M., Abdul Wahab, N. I., **Othman, M. L.** Design Concept of Robust Hybrid Power Supply System for Medium-Scale Industries and Farms. 7th International Conference on Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context (7th ICSAFEI2015), Faculty of Engineering, Universiti Putra Malaysia, 25-27 Aug 2015, pp **xxx-xxx**.
  35. **Othman, M. L.**, Olufemi, O. E., Hizam, H., Othman, M. M. Protection Coordination Improvement On Interconnected Distribution System With Smart Power Supply Sources. 7th International Conference on Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context (7th ICSAFEI2015), Faculty of Engineering, Universiti Putra Malaysia, 25-27 Aug 2015, pp **xxx-xxx**.
  36. Yahya, M. A., Othman, M. M., Abdul Razak M. A., Zakaria, Z., Musirin, I., Kari, M. N., Osman, M. F., Abu Hassan, M. Z., Mohd Dzin, S. H., Azrae, B., Wan Ismail, W. S., Salleh, M. H., Jafar, S., **Othman, M. L.** Ant Colony Optimization Technique in Optimal Capacitor Placement and Sizing Problem in Unbalanced Electrical Distribution System. 2015 9th International Power Engineering And Optimization Conference (PEOCO2015), Melaka, Malaysia, 18-19 Mar 2015, pp. **xxx-xxx**.
  37. Olufemi, O. E., **Othman, M. L.**, Hizam, H., Othman, M. M. Artificial Neural Network Application in Optimal Coordination of Directional Overcurrent Protective Relays in Electrical Mesh Distribution Network. 2015 9th International Power Engineering And Optimization Conference (PEOCO2015), Melaka, Malaysia, 18-19 Mar 2015, pp. **xxx-xxx**.
  38. Mohamed, A., Abdul Wahab, N. I., **Othman, M. L.**, Hizam, H. DC Power Forecasting for PV Solar Panel in Malaysia using Artificial Neural Network. 2nd International Symposium On Applied Engineering And Sciences (SAES 2014), Kyutech University, Japan, 20-21 Dec 2014.
  39. Islam, S. Z., Mariun, N., **Othman, M. L.**, Hizam, H., Zainal Abidin, I., Toudeshki, A. Experimental Analysis for Temperature Effect on Amorphous Silicon (A-Si) Photovoltaic Module Using Automatic Load Selection System. 2nd AUN/SEED-Net Regional Conference on Energy Engineering (RCeneE-2014), Bangkok, Thailand, 13-14 Nov 2014, pp. **xxx-xxx**.
  40. Rezaei, N., **Othman, M. L.**, Abdul Wahab, N. I., Hizam, H. Coordination of Overcurrent Relays Protection Systems for Wind Power Plants. 2014 IEEE International Conference on Power and Energy (PECON 2014) – Power Quality, Power System Protection track, Kuching, Sarawak, Malaysia, 1-3 December 2014, pp. 394-399.
  41. Rezaei, N., **Othman, M. L.**, Abdul Wahab, N. I., Hizam, H. Wind Power Plants Protection using Overcurrent Relays. Seoul International Conference on Applied Science and Engineering (SICASE2014), Seoul, South Korea, 29-31 August 2014, pp **xx-xx**.
  42. Tariq, W., **Othman, M. L.**, Mariun, N., Abd. Wahab, N. I., Rasool, Z. What Smart Building Management System Can Offer: Brief Discussion By Taking Malaysian Power Infrastructure As A Sample. 2<sup>nd</sup> International Symposium on Computer Science and Electrical Engineering (ISCSEE 2014), Phuket, Thailand, 14-16 March 2014, pp. 76-84.
  43. **Othman M. L.** From Computational Intelligence to Intelligent Data Mining in Protection Performance Analysis: Challenges and Motivations in Review. IEEE International Conference on Circuit, Power and Computing Technologies, 2014 (ICCPCT-2014), Noorul Islam University, Kanyakumari, Tamil Nadu, India, 20-21 March 2014.  
(Keynote Address)

44. Mirfendereski, S., Abdul Wahab, N. I., Jasni, J., **Othman, M. L.** Application of Posicast Controller on Power System Stabilizer and Its Effect on Oscillatory Stability. 7th Global Conference on Power Control and Optimization, Prague, Czech Republic, 25-26 Aug 2013.
45. Farzan, P., Soheilrad, M., **Othman, M. L.**, Hojabri, M., Broujerdian, M. M. CFD analysis of Wind blocking vs. Venturi effect: A Case Study in Tropical Climate. 2013 International Conference on Renewable Energy and Sustainable Energy (ICRESE'13), Karunya University Coimbatore, India, 5-6 Dec 2013, pp. 192-195.
46. Islam, S. Z., Mariun, N., **Othman, M. L.**, Hizam, H., Zainal, I. Dynamic Communication for Smart Metering: Leading Edge for Sustainable Energy and PHEV. 2013 International Conference on Advances in Energy and Environmental Science (ICAEEES 2013), Guangzhou, China, 30-31 July 2013.
47. Karami, K., Farzan, P., **Othman, M. L.**, Soheilrad, M., Ahmadi, M. PID Controller Adjustment for MA-LFC by Using a Hybrid Genetic-Tabu Search Algorithm. 2013 International Conference on System Engineering and Technology (ICSET 2013), Faculty of Electrical Engineering, Universiti Teknologi Mara, Shah Alam, Malaysia, 19-20 August 2013, pp. 197-202.
48. Soheilrad, M., Farzan, P., **Othman, M. L.**, Karami, K., Hojabri, M. PID controller adjustment for MA-LFC by using Imperialist Competitive Algorithm. 2013 IEEE 7th International Power Engineering and Optimization Conference (PEOCO2013), Langkawi, Malaysia, 4-5 June 2013, pp. 507-512.
49. Saberian, A. M., Farzan, P., Nejad, M. F., Hizam, H., Gomes, C., **Othman, M. L.**, Mohd Radzi, M. A., Ab Kadir, M. Z. A. Role of FACTS devices in improving penetration of renewable energy. 2013 IEEE International Power Engineering and Optimization Conference (PEOCO2013), Langkawi, Malaysia, 4-5 June 2013, pp. 432-437.
50. Islam, S. Z., Mariun, N., Grozescu, V., **Othman, M. L.**, Hizam, H., Abidin, I. Z. Electricity Measurement Sensor: A Review on Application to Smart Meter Communication. 3<sup>rd</sup> International Conference on Engineering Education 2013 (ICEE2013), Madinah, Kingdom of Saudi Arabia, 22-25 Dec 2013, pp. 492-500.
51. 39. Mirfendereski, S., Abdul Wahab, N. I., Jasni, J., **Othman, M. L.** Posicast Controller in Mitigation of Small Signal Oscillatory Instability and Its Optimization Method. International Symposium of Applied Engineering and Sciences 2013 (SAES 2013), pp. 2pgs.
52. Mirfendereski, S., Wahab, N. I. A., Jasni, J., **Othman, M. L.** Small Signal Stability Assessment and Control of Power Systems. 2012 IEEE International Power Engineering and Optimization Conference (PEOCO2012), Melaka, Malaysia, 6-7 June 2012, pp.515-520.
53. Islam, S. Z., Mariun, N., Hizam, H., **Othman, M. L.**, Radzi, M. A. M., Hanif, M., Abidin, I. Z. Communication for Distributed Renewable Generations (DRGs): A Review on the Penetration to Smart Grids (SGs). 2012 IEEE International Power and Energy Conference (PECON 2012) – Smart Grid & Utility Applications, Kota Kinabalu, Malaysia, 2-5 December 2012, pp. 870-875.
54. **Othman, M. L.**, Aris, I., Abdullah, S. M., Ali, M. L., Othman, M. R. Protection decision algorithm discovery from numerical relay recorded event report. International Advanced of Technology Congress, ATCi'09, PWTC, KL, 3-5 Nov 2009.
55. **Othman, M. L.**, Aris, I., Abdullah, S. M., Ali, M. L., Othman, M. R. Rough set based data mining strategy for analyzing distance protective relay operations. International Conference on Computational Intelligence, Modelling and Simulation, CSSim'09, Brno University, Czech Republic, 7-9 September 2009.
56. **Othman, M. L.**, Aris, I., Abdullah, S. M., Ali, M. L., Othman, M. R. Rough set based data mining strategy for analyzing distance protective relay operations. International Conference on Information and Knowledge Engineering, IKE'09, Las Vegas, Nevada, USA, 13-16 July 2009.
57. **Othman, M. L.**, Aris, I., Mariun, N., Sahbudin, R. K. Z. Power System Protection Simulator and Expert System Software. Research and Innovation Exhibition, Universiti Putra Malaysia, 1-9 March 2005.
58. **Othman, M. L.**, Aris, I., Mariun, N., Sahbudin, R. K. Z. Development of Power System Protection Knowledge-Based Expert System Using Interactive Multimedia Approach.. AORC-CIGRE Regional Technical Meeting, Putrajaya, 23-25 March 2004.

## Books

### Chapter in Books

1. Hadi, M. K., **Othman, M. L.**, Abdul Wahab, N. I. A. "Differential Evolution Based Special Protection and Control Scheme for Contingency Monitoring of Transmission Line Overloading", in Lecture

Notes on Data Engineering and Communications Technologies: Recent Trends in Information and Communication Technology (Proceedings of the 2nd International Conference of Reliable Information and Communication Technology (IRICT 2017)), Saeed, F., Gazem, N., Patnaik, S., Saed Balaid, A.S., Mohammed, F.M.A. (Eds.). Heidelberg, Germany: Springer-Verlag GmbH, 2017, pp. 475-487. ISBN: 978-3-319-59427-9. DOI: 10.1007/978-3-319-59427-9\_50. Available from: <http://www.springer.com/gp/book/9783319594262>

2. **Othman, M. L.**, Aris, I., "Inconsistent Decision System: Rough Set Data Mining Strategy to Extract Decision Algorithm of a Numerical Distance Relay – Tutorial", in *Advances in Data Mining Knowledge Discovery and Applications*, Adem Karahoca (Ed.). Rijeka, Croatia: InTech, 2012, pp. 117-142. ISBN: 978-953-51-0748-4. Available from: <http://www.intechopen.com/books/advances-in-data-mining-knowledge-discovery-and-applications/inconsistent-decision-system-rough-set-data-mining-strategy-to-extract-decision-algorithm-of-a-numer>
3. Yahya, M. A., Othman, M. M., Abdul Razak M. A., Zakaria, Z., Musirin, I., Kari, M. N., Osman, M. F., Abu Hassan, M. Z., Mohd Dzin, S. H., Azrae, B., Wan Ismail, W. S., Salleh, M. H., Jafar, S., **Othman, M. L.**, "Ant Colony Optimization Technique in Optimal Capacitor Placement and Sizing Problem in Unbalanced Electrical Distribution System" in *Recent Trends in Power Engineering*, Ismail Musirin and Shahril Irwan Sulaiman (Eds.). Pfaffikon, Switzerland: Trans Tech Publications Inc, 2015, pp. 78-82. ISBN: 978-3-03835-512-0. Available from: <http://www.scientific.net/AMM.785.48>
4. Olufemi, O. E., **Othman, M. L.**, Hizam, H., Othman, M. M., "Artificial Neural Network Application in Optimal Coordination of Directional Overcurrent Protective Relays in Electrical Mesh Distribution Network" in *Recent Trends in Power Engineering*, Ismail Musirin and Shahril Irwan Sulaiman (Eds.). Pfaffikon, Switzerland: Trans Tech Publications Inc, 2015, pp. 48-52. ISBN: 978-3-03835-512-0. Available from: <http://www.scientific.net/AMM.785.48>
5. **Othman, M. L.**, Aris, I., Ananthapadmanabha, T. "Novel Rule Base Development from IED-Resident Big Data for Protective Relay Analysis Expert System", in *Big Data on Real-World Applications*, Sebastián Ventura Soto, José M. Luna, Alberto Cano (Eds.). Rijeka, Croatia: InTech, 2016, pp. 117-142. ISBN: 978-953-51-2490-0. DOI: 10.5772/63756. Available from: <http://www.intechopen.com/books/big-data-on-real-world-applications/novel-rule-base-development-from-ied-resident-big-data-for-protective-relay-analysis-expert-system>

### Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Development of Electrical Safety Model – <b>(Project Leader)</b> .	40,000	Jun 2018 – Dec 2018	UPM, Geran Putra, Current Issues
2.	Adaptive Fault Detection Development For Reliable Transmission Line Protection Using WANFIS – <b>(Project Leader)</b> .	17,000	4 Dec 2017 – 4 Dec 2019	UPM, Geran Putra Inisiatif Siswazah
3.	Development of Adaptive Distance Protection Scheme During Power Swing in Compensated Lines Using Data Mining Strategy – <b>(Project Leader)</b> .	20,000	1 Apr 2017 – 1 Apr 2019	UPM, Geran Putra Inisiatif Siswazah
4.	Improvement of Directional Overcurrent Relay Coordination in Mesh Distribution Network Using Artificial Intelligence with Rough Set Approach – <b>(Project Leader)</b> .	8,000	Sep 2014 – Sep 2016	UPM, Geran Putra Inisiatif Siswazah
5.	Intelligent Data-Mining-Based System Protection Scheme in Smart Grid – <b>(Project Leader)</b> .	100,000	Nov 2013 – Nov 2015	Geran Putra IPB (Sub-Project)
6.	Development of Rule Base Maintenance Strategy of a Numerical Protective Relay	115,000	Sep 2012 – Aug 2014	UPM, Research University Grant Scheme (RUGS)

No	Project Title	Amount (RM)	Year	Source of Fund
7.	Analysis Expert System Using Data Mining – <b>(Project Leader)</b> . An Intelligent Data Mining Technique in Numerical Protective Relay Performance Analysis – <b>(Project Leader)</b> .	98,000	Aug 2011 – Jul 2013	Ministry of Higher Education – Fundamental Research Grant Scheme (FRGS)
8.	Automated analysis of numerical protective relay operation using FPGA – <b>(Project Leader)</b> .	60,000	Feb 2007 – Jan 2009	Ministry of Higher Education – Fundamental Research Grant Scheme (FRGS)
9.	Sustainable Hydrokinetic Renewable Energy: Hydrokinetic Power and Control Protection System (HPCPS): Lightning Surge Protection – <b>(Principal Researcher)</b> .	90,000	1 Nov 2013 – 30 Jun 2017 (1st ext.), 30 Jun 2018 (2nd ext.)	Research and Innovation Unit, Training & Research Division, JKR Malaysia
1	Development of TRIZ Based Forecasting Model To Achieve Reliable Future Power Systems: Forecasting Smart Grid's Future Developments and Opening Venues for Breakthrough Research and Innovation – <b>(Project Member)</b> .	150,000	1 Feb 2018 – 31 Jan 2020	UPM, Geran Putra Berimpak
2.	Design and Development of Robust Communication Model and Control System with Incorporated Decentralized Renewables in Smart Grids – <b>(Project Member)</b> .	240,000	Sept 2012	Ministry of Science, Technology and Innovation – Science Fund
3.	Dynamic Vulnerability Assessment System for Electrical Power System Stability Enhancement – <b>(Project Member)</b> .	57,200	Dec 2012	UPM, Research University Grant Scheme (RUGS)
4.	Assessment and Control of Power Systems Using Hybrid Artificial Intelligence Techniques for Small Signal Stability Problem – <b>(Project Member)</b> .	13,000	Dec 2012	UPM, Research University Grant Scheme (RUGS)
5.	Intelligent Control and Communication System for Smart Grid Power System – <b>(Project Member)</b> .	100,000	Nov 2013 – Nov 2015	Geran UPM IPB (Sub-Project)
6.	Development of Double Stator Magnetic Geared Permanent Magnet Generator for Low Wind Application – <b>(Project Member)</b> .	211,000	2015 - 2017	Ministry of Science, Technology and Innovation – Science Fund
7.	A New Smart Meter Model With Integrated Portable Communication – (Project Member).		1 Aug 2016 – 1 Aug 2018	UPM, Geran Putra Inisiatif Siswazah

### Awards/Recognition (Current)



No	Name of awards	Title	Award Authority	Award Type	Year
1.	Awarded Visiting Lecturer at Kyutech Institute of Technology (Kyutech), Tobata, Kitakyushu, Japan	Awarded Visiting Lecturer at Kyutech Institute of Technology (Kyutech), Tobata, Kitakyushu, Japan, under UPM sabbatical leave scheme	UPM (allowance) and Kyutech (Lab placement)	International	2018
2.	Research Review Appreciation	Appreciation on Reviewing Taylor's University Conference Paper/Internal Research Grant Application	Taylor's University, Malaysia	National	2018
3.	Conferred a Certificate of Loyalty in recognition of being a loyal member of IEEE PES Malaysia (> 10 years).	Certificate of Loyalty	IEEE Power & Energy Society, Malaysia Chapter	National	2017
4.	2016 Journal Article Incentive (Insentif Makalah Jurnal 2016) - Incentive of RM 8,763.00	2016 Journal Article Incentive (Insentif Makalah Jurnal 2016)	UPM	University	2017
5.	Excellent Teaching Award 2017 (Anugerah Kecemerlangan Dalam Pengajaran 2017)	Excellent Teaching Award 2017	UPM	University	2018
6.	Excellent Service Award 2016 (Anugerah Perkhidmatan Cemerlang 2016)	Excellent Service Award 2016	UPM	University	2017
7.	Excellent Teaching Award 2016 (Anugerah Kecemerlangan Dalam Pengajaran 2016)	Excellent Teaching Award 2016	UPM	University	2017
8.	Excellent Service Award 2015 (Anugerah Perkhidmatan Cemerlang 2015)	Excellent Service Award 2015	UPM	University	2016
9.	Excellent Service Award 2014 (Anugerah Perkhidmatan Cemerlang 2014)	Excellent Service Award 2014	UPM	University	2015
10.	Excellent Service Award 2013 (Anugerah Perkhidmatan Cemerlang 2013)	Excellent Service Award 2013	UPM	University	2014
11.	Excellent Service Award 2012 (Anugerah Perkhidmatan Cemerlang 2012)	Excellent Service Award 2012	UPM	University	2013
12.	Nomination for Vice Chancellor Fellowship Award (Pencalonan Anugerah Felohsip Naib Canselor (Kategori Pengajaran))		UPM	University	2014
13.	Excellent Teaching Award 2012 (Anugerah Kecemerlangan Dalam Pengajaran 2012)	Excellent Teaching Award 2012	UPM	University	2012



No	Name of awards	Title	Award Authority	Award Type	Year
14.	Excellent Teaching Award 2011 (Anugerah Kecemerlangan Dalam Pengajaran 2011)	Excellent Teaching Award 2011	UPM	University	2011
15.	Scholarship to pursue PhD in Power Electrical Engineering at UPM under the 'Skim Latihan Akademik IPTA (SLAI)'	Discovering Decision Algorithm Of Distance Protective Relay Based On Rough Set Theory And Rule Quality Measure	Ministry of Higher Education Malaysia (Skim Latihan Akademik IPTA (SLAI))	National	2007-2011
16.	Bronze Medal	Power System Protection Simulator and Expert System Software (in Design, Research and Innovation Exhibition, 1-19 March 2005)	UPM	University	2005
17.	Patent Pending	- Software for Determining the Optimal Parameters, Magnetic Field Distribution and Simulating the Behavior of Wireless Energy Transfer System, 29 August 2014, Ishak Aris, Radin Zaim Radin Umar, Mohammad Lutfi Othman. - Three Levels Hybrid Universal Electric Vehicle Charger. Ali Saadon Al-Ogaili, Ishak Aris, Mohammad Lutfi Othman, Norhafiz Azis and Dino Isa.	Putra Science Park (Office of The Deputy Vice Chancellor (Research & Innovation), UPM)		2014 2017
18.	Copyright	"Phasor Comparator Algorithm for Power Swing Blocking in Distance Protection", 15 May 2015, Mohammad Lutfi Othman, Mohammed Sani Ya'u, Nigerian, Prof. Dr. Ishak Aris, Dr. Noor Izzri Abdul Wahab.	Putra Science Park (Office of The Deputy Vice Chancellor (Research & Innovation), UPM)		2015
19.	Best paper award	1. Best paper award for a paper titled "Coordination of Overcurrent Relays Protection Systems for Wind Power Plants" presented in "2014 IEEE International Conference on Power and Energy (PECON 2014) – Power	IEEE (PES and PELS)	International	2014

No	Name of awards	Title	Award Authority	Award Type	Year
		Quality, Power System Protection track, Kuching, Sarawak, Malaysia, 1 - 3 December 2014"			
2.	Best paper award for a paper titled "Power Speed Characteristics of a Novel Double-Stator PM Generator Integrated with a Magnetic Gear" presented in 2016 IEEE International Conference on Power and Energy (PECON 2016) – Motor Drives and Electrical Machines track, Hatten Hotel Melaka, Melaka, Malaysia, 28-29 Nov 2016.		IEEE (PES and PELS)	International	2016
3.	Best paper award for a paper titled "xxxxxxx" presented in International Conference On Electrical And Electronic Engineering (ICE3-2017), Langkawi, Malaysia-, 8-9 May 2017.		Nabu Research Academy Sdn. Bhd.	International	2017

### Professional Services/Consultation

No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/ On-going)
1	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Electrical Director of Sigma Jelas Engineers Sdn Bhd,– M&E engineering consultation works in more than 200 construction projects.	Government agencies and private organizations.	NA	Active to date	Completed and on-going
2	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Professional Engineer Service for Endorsement of Interim Progress for 'Cadangan Membina dan Menyipakan Sekolah Menengah Kebangsaan	Kementerian Pendidikan Malaysia	NA	Feb 2018	Completed

No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/ On-going)
3	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Titingan II, Tawau, Sabah'. Professional Engineer Service for Review and Endorsement of Electrical Services drawings for 'Cadangan Pembangunan Bercampur Yang Mengandungi 53 Unit Rumah Kedai 2 Tingkat (Pt 21-30 & Pt 390-432), 3 Unit Pencawang TNB, Kawasan Lapang (Pt 241 & Pt 31), Tapak Masjid (Pt 64) Di Atas Lot 200, 448 dan 449, Jawi, Mukim 6, Daerah Seberang Perai Selatan, Pulau Pinang Untuk Tetuan UDI Property Sdn.Bhd.'	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment Plant (STP) Consultant)	RM 2000	Apr 2018	Completed
4	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Supporter to evaluate/report CEng professional registration candidate: Dr. Engr. Amimul Ahsan.	The Institute of Engineering and Technology (IET)	NA	Mar 2017	Completed
5	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal bagi 'Cadangan Kerja-Kerja Menaiktaraf Tingkat Bawah, Satu dan Dua Di Ibu Pejabat MARA, Jalan Raja Laut, Kuala Lumpur.'	DHIKAM NIAGA Sdn. Bhd.	RM 1500	Dec 2017	Completed
6	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Power Integrity Analysis Report For Electrical Distribution at Universiti Sains Islam Malaysia (USIM).	Malakoff Corporation Berhad	RM 5000	Mar 2017	Ongoing

No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/ On-going)
7	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal 'Proposed Design and Build and Commissioning for a Rationalization of Taman Kemuning (SEN07) to Kuala Sawah CSTP, Seremban, Negeri Sembilan'.	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment Plant (STP) Consultant)	RM 1500 (prof. fee)	2016	Completed
8	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Consultant Evaluation for 'Permohonan Untuk Pelantikan Perunding Bagi Cadangan Menaiktaraf Bangunan Institut Penyelidikan Penuaan Malaysia IPPM) Dan Makmal Penjagaan Warga Emas Bersepadu, UPM'.	Office of Development Asset Management (PPPA) - Jawatankuasa Penilaian Perunding (JPP)	NA	2016	Ongoing
9	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Consultant Evaluation for 'Permohonan Untuk Pelantikan Perunding Bagi Melaksanakan Projek Cadangan Naiktaraf Loji Pemandu Bagi Memperkasa Industri Makanan Melalui Teknologi Pemprosesan Terkini, Fakulti Sains dan Teknologi Makanan, UPM'.	Office of Development Asset Management (PPPA) - Jawatankuasa Penilaian Perunding (JPP)	NA	2016	Ongoing
10	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Consultant Evaluation for 'Permohonan Untuk Pelantikan Perunding Bagi Melaksanakan Projek Cadangan Menaiktaraf Bangunan Untuk Pusat Kecemerlangan Pendidikan TVET Pertanian, UPM'.	Office of Development Asset Management (PPPA) - Jawatankuasa Penilaian Perunding (JPP)	NA	2016	Ongoing

No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/ On-going)
11	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Consultant Evaluation for 'Penyediaan Lukisan Terbina (As-built Drawing) Bangunan Kompleks Pentadbiran, Pusat Kebudayaan dan Keseniaan Sultan Salahuddin Abdul Aziz Shah dan Perpustakaan Sultan Abdul Samad Bagi Mendapatkan Sijil Perakuan Bomba, UPM'.	Office of Development Asset Management (PPPA) - Jawatankuasa Penilaian Perunding (JPP)	NA	2016	Ongoing
12	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Technical Expert Consultation and Report Writing for Business Start-Up Fund (BSF) application for 'DGS System' (PoE for the control of electrical fittings especially lighting fixtures and 13A switched socket outlets) designed/produced by Digital Switch Technologies Sdn Bhd.	Malaysian Technology Development Corporation Sdn. Bhd. (MTDC)	RM 800 (prof. fee)	2015	Completed
13	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Investigation Report on Electrical Condition in Block B-ITMA, Faculty of Engineering, UPM	Faculty of Engineering, UPM	-	2015	Completed
14	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal 'Sewage Treatment Plant' untuk 'Cadangan Pembangunan Rumah Mampu Milik Bersampur Di Atas Lot 200, 448 and 449, JAWI, 5Mukim 6, Daerah S6berang Perai Selatan, Pulau Pinang Untuk Tetuan UNI Property Sdn. Bhd.'	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment Plant (STP) Consultant)	RM 3000 (prof. fee)	2014	Completed

No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/ On-going)
15	Assoc. Prof. Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal untuk 'Cadangan Pembinaan Tapak Pelupusan Sisa Pepejal Sanitari (Fasa 1) Di Sungai Udang, Melaka'.	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment Plant (STP) Consultant)	-	2013	Completed
16	Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal untuk: 'Electrical Works of Sewerage Treatment Plant for: Construction and Completion of Earthwork and Infrastructure Works for the Development of Gambang Halal Park at Taman Teknologi Gambang, Pahang Darul Makmur.'	Azmanir Service (Wastewater Engineering Specialist) through Perunding Bakti	-	2013	Completed
17	Ir. Dr. Mohammad Lutfi Othman, Ir. Dr. Muhammd Fuad Abdullah	Professional Interview: Interviewer's Report (for Candidate Engr. Norhizami Bin Abu Hasan).	Institution of Engineers, Malaysia (IEM)	RM 200	2013	Completed
18	Ir. Dr. Mohammad Lutfi Othman, Ir. Dr. Muhammd Fuad Abdullah	Professional Interview: Interviewer's Report (for Candidate Engr. Royhaizad Bin Mohamad Ismail).	Institution of Engineers, Malaysia (IEM)	RM 200	2013	Completed
19	Ir. Dr. Mohammad Lutfi Othman, Ir. Dr. Muhammd Fuad Abdullah	Professional Interview: Interviewer's Report (for Candidate Engr. Yong Chin Choong).	Institution of Engineers, Malaysia (IEM)	RM 200	2012	Completed

No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/ On-going)
20	Ir. Dr. Mohammad Lutfi Othman, Ir. Dr. Muhammd Fuad Abdullah	Professional Interview: Interviewer's Report (for Candidate Engr. Ahmad Najib bin Mohammad Amin).	Institution of Engineers, Malaysia (IEM)	RM 200	2012	Completed
21	Ir. Dr. Mohammad Lutfi Othman, Dr. Noor Izzri Abdul Wahab,	Kertas Cadangan Penubuhan Pusat Kecemerlangan Penyelidikan – Pusat Penyelidikan Kuasa dan Tenaga Maju (Center for Advanced Power and Energy Research, CAPER).	Engineering Faculty, UPM	-	2012	Completed
22	Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal untuk: 'Cadangan Pembinaan Loji Rawatan Effluen Untuk Kerja-Kerja Ubahsuai ke atas Kilang/Stor Sediada di atas Lot No. 1, Persiaran Perusahaan, Seksyen 23, 40000 Shah Alam, Selangor Untuk Fresh Start Bakeries (M) Sdn. Bhd'.	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment Plant (STP) Consultant)	-	2012	Completed
23	Ir. Dr. Mohammad Lutfi Othman	Pakar Bidang Khusus Untuk Lab Kejuruteraan Nilai (Value Engineering) bagi 'Cadangan Membeli dan Mengambilalih Operasi dan Perkakasan Pencawang TNB di PUTRA INFOPORT, UPM'.	Bahagian Pengurusan Korporat, Pejabat Naib Canselor, UPM	-	2012	Completed
24	Ir. Dr. Mohammad Lutfi Othman	Pakar Bidang Khusus Untuk Lab Kejuruteraan Nilai (Value Engineering) bagi 'Cadangan Naiktaraf Dewan Kuliah 2, Fakulti	Bahagian Pengurusan Korporat, Pejabat Naib Canselor, UPM	-	2012	Completed



No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/ On-going)
25	Ir. Dr. Mohammad Lutfi Othman	Pengajian Pendidikan Sebagai Auditorium Utama Persidangan'. Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal untuk: 'Cadangan Membina dan Menyiapkan Sebuah Bangunan Loji Pandu 2 Tingkat, Sebuah Pusat Rawatan Bahan Buangan Kimia dan Sebuah Bangsal Di Atas Sebahagian Lot 52, Jalan Graduan 1/23, Seksyen 1, 40000 Shah Alam, Selangor, Untuk Fakulti Kejuruteraan Kimia, Universiti Teknologi Mara (UiTM)'. Khidmat Nasihat & Perunding Bacaan Tarif Elektrik (Meter) di Premis Koperasi Universiti Putra Malaysia.	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment Plant (STP) Consultant)	-	2012	Completed
26	Ir. Dr. Mohammad Lutfi Othman	Khidmat Nasihat & Perunding Bacaan Tarif Elektrik (Meter) di Premis Koperasi Universiti Putra Malaysia.	Koperasi Universiti Putra Malaysia, UPM	RM 300 (prof. fee)	2012	Completed
27	Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal untuk: 'Cadangan Merekabentuk dan Membina Stesen Pam Sistem Pembentungan di Fasa 1, Pakej 2 – Parcel L, timur@enstek, Bandar Enstek, Negeri Sembilan Darul Khusus'.	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment Plant (STP) Consultant)	-	2011	Completed
28	Ir. Dr. Mohammad Lutfi Othman	Khidmat Jurutera Professional Bagi Kajian dan Pengendorsan Lukisan Servis Elektrikal untuk:	Pakar Management Technology (M) Sdn. Bhd. (Sewage Treatment	-	2011	Completed

No	Name of Consultant (s)	Name of Project/Program	Sponsor	Amount (RM)	Year	Status (Completed/On-going)
		'Kerja-kerja Membekal & Memasang Gross Pollutant Trap (GPT) dan Kerja-Kerja Berkaitan di Lembangan Sungai Klang, Daerah Gombak dan Hulu Langat, Bagi Projek River of Live (ROL) Inisiatif 4'.	Plant (STP) Consultant)			
29	Ir. Dr. Mohammad Lutfi Othman	Design checker for Electrical Services Installation Works for 'Cadangan Pemasangan Semula Lampu Taman Sediada di Sekeliling Tasik Fakulti Kejuruteraan, UPM'	Faculty of Engineering, UPM	-	2011	Completed
30	Ir. Dr. Mohammad Lutfi Othman	Investigation Report on Electrical Condition in Block C, Faculty of Engineering, UPM	Faculty of Engineering, UPM	-	2011	Completed
31	Ir. Dr. Mohammad Lutfi Othman	Design Report and Cost Estimate for 'Cadangan Pemasangan Semula Lampu Taman Sediada di Sekeliling Tasik Fakulti Kejuruteraan, UPM'.	Faculty of Engineering, UPM	-	2011	Completed

### Student Supervision

No	Level	Name of Students and Title of Thesis/Project	Status (Completed/On-going)	Grad
<b>Main Supervisor</b>				
1	PhD	Syirrazie Bin Che Soh @ Shaari (GS51344) – Load Shifting Optimization to Reduce Maximum Demand for Energy Efficiency in Industrial Building	On-going	
2	PhD	Shamim Akhtar (GS47606) – Evaluation of Id-Nat Serological Assay for Hbv Using Artificial Neural Network	On-going	

No	Level	Name of Students and Title of Thesis/Project	Status (Completed/On-going)	Grad
3	PhD	Azniza Ahmad (Gxxxxx) – Improvement of Differential Protection with Harmonics Restraint during Fault	On-going	
4	PhD	Ali Hussein Humod (GS42708) - FPGA based Protection and Control System	On-going	
5	PhD	Okeke Chidiebere Akachukwu (GS44825) - Adaptive Distance Relay under Power Swing Condition	On-going	
6	PhD	Elhadi M H Akeer (GS42369) - IEC61850 Based Substation Automation System Functional and Interoperability Analysis	On-going	
7	PhD	Ghusoon Ismail Jamil (GS41131) - Adaptive Distance Relay in Smart Grid	On-going	
8	PhD	Nima Razaei (GS46252) – Transformer Protection Based On Finite Element Analysis	On-going	
9	PhD	Waqar Tariq (GS45550) – Efficient Energy Management System	On-going	
10	PhD	Osaji Emmanuel Olufemi (GS46139) – Optimal Coordination of Directional Overcurrent Relays Based on Data Mining Technique	On-going	
11	MS	Mohamad Danial Bin Mohamad Din (GS51396) – Transformer Protection Using Vector-Fitting Based Expert System	On-going	
12	MS	Abid Mustafa (GS41850) – WSN implementation in Building Energy Management System	On-going	
13	MS	MS_Tarig Eisa Daw Elbeit (GS44944) - IEC 61850 Based Protection System	On-going	
14	MS	Mahmood Khalid Hadi (GS40869) - Intelligent Data-Mining-Based System Protection Scheme in Smart Grid	Completed	2016
15	MS	Ir. Saiful Zuhaimi Bin Hj. Ahmad (GS39260) – Hydrokinetic Lightning Protection System (for Sustainable Hydrokinetic Renewable Energy (SHRE))	On-going	
16	MS	Osaji Emmanuel Olufemi (Gs37749) –Optimal Coordination of Directional Overcurrent Relays in Mesh Distribution Network System Using Artificial Intelligence Technique	Completed	2015
17	MS	Nima Razaei (Gs36415) – Optimal Overcurrent Relay Coordination in Wind Power Plants Using Genetic Algorithm Approach	Completed	2016
18	MS	Qasim Badar (GS35296) – Robust Communication in Differential Relay Protection Using Wireless Technique	Completed	2015
19	MS	Waqar Tariq (GS33625) – Standby Mode Minimization for Efficient Building Management System Using Fuzzy Logic	Completed	2015
20	MS	Mohammed Sani Yau' (GS35244) – Improvement of Power Swing Blocking Scheme in Distance Protective Relay	Completed	2015
21	Bachelor	Kurreemun Khudsiya Bibi Zainab – Power Transformer Protection Using Microcontroller Based Relay.	On-going	
22	Bachelor	Muhammad Affendy Bin Salim – Development of DSP Based Quadrilateral Distance Protective Relay	Completed	2017

No	Level	Name of Students and Title of Thesis/Project	Status (Completed/On-going)	Grad
23	Bachelor	Wong Leong Kit– Improvement of Power System Protection Interactive Multimedia Courseware	Completed	2016
24	Bachelor	Nur Azyan Zakaria – Development of LabVIEW Based Electrical Design Tool	Completed	2015
25	Bachelor	Norhana Baharom – Analysis of Bus Differential Relay Using Rough Set Based Data Mining	Completed	2015
26	Bachelor	Joel Wong Kee Haw – Arduino Based Overcurrent Relay	Completed	2015
27	Bachelor	Look Eng Nee – Design and development of building management system	Completed	2014
28	Bachelor	Muhammad Safwan Che Yusoff – Improvement of distance of protection	Completed	2014
29	Bachelor	Tan Wei Siang – DSP-based overcurrent protective relay	Completed	2013
30	Bachelor	Siti Zalifah Bt. Mohamad Achil - Analysis of Power Swing Bocking in Distance Relay	Completed	2012
31	Bachelor	Siow Lip Han - Analysis of Differential Relay Using Data Mining	Completed	2012
32	Bachelor	Chan Khun Meng - Modelling of Differential Relay	Completed	2007
33	Bachelor	Kho Chee Kar - Modelling of Power System Protection in Industrial System	Completed	2007
34	Bachelor	Mohamed Zukri Zain B. Mohamed – Modelling of Power System Protection in Transmission Network	Completed	2007
35	Bachelor	Tee Kok Wei - Modelling of Power System Protection in Substation of Distribution Network	Completed	2007
36	Bachelor	Shaiful Izhah B Mohd Yusop - Development of Overcurrent Protective Relay	Completed	2006
37	Bachelor	Nurasyima Saiyuti - Development of Distance Protective Relay	Completed	2006
38	Bachelor	Mohd Jamaludin B. Che Ani - Development of Differential Protective Relay	Completed	2006
<b>Co-Supervisor</b>				
1	PhD	Seyed Abbas Mousavi Maleki (GS49008) – Optimization of PV Panel Output by Increasing Incident Solar Radiation	On-going	
2	PhD	Nwagbara Samuel Onuabuchi (GS47934) – Power Transformer Differential Protection	On-going	
3	PhD	Ahmad Shukri Bin Mohammad (GS45668) – A New Improved Cascaded Multilevel Inverter Topology with Minimum Number of Switches and Minimum Number of Conducting Switches	On-going	
4	PhD	Avinash Srikanta Murthy (GS47724) – Frequency Response Analysis of Transformer Windings	On-going	
5	PhD	Mohd Izhwan Bin Muhamad (GS48699) – Estimation of Cox Budget and Energy Feasibility of Commercial Energy Crops and Oil Palm Wastes Applied Into a Suitable Gasifier-Generator System	On-going	
6	PhD	Masoud Ahmadipour (GS47645) – Fast-Scalable-Adaptable Protection Method for Security and Reliability Improvement in Smart Microgrids	On-going	
7	PhD	Halimatusaadia Rusli (GS44290) – Development of a Prediction Model for Initiation of Wildfires by Lightning and High Voltage Strikes	On-going	
8	PhD	Nasser Hassan Ali (GS39795) – Wireless application in IEC 81850 based Substation Automation System	Completed	

No	Level	Name of Students and Title of Thesis/Project	Status (Completed/On-going)	Grad
9	PhD	Mustafa Shehu Salihu (GS39987) – Development of a Magnetic Geared Permanent Magnet Generator for Wind Turbine Modeling and Simulation	On-going	
10	PhD	Shaker Mahmood Khudher (GS38683) – Smart Grid Power System Protection	On-going	
11	PhD	Arazghelich Igderi (GS35062) - Dynamic Vulnerability Assessment System for Electrical Power System Stability Enhancement	On-going	
12	PhD	Ali Saadon Mtair Al-Ogaili (GS34259) – The Feasibility of Wireless Power Transfer with High Efficiency for EV application	On-going	
13	PhD	Haizum Hanim (GS37853) – Development of Smart Metering and Integrated Communication	On-going	
14	PhD	Prem Kumar A/L Apasamy (GSXXXXX) -Error Prediction in Industrial Computational System	On-going	
15	PhD	Syed Zahurul Islam (GS31464) - ZigBeePro Communication For Incorporating Decentralized Renewable Energy In Smart Grid	Completed	2016
16	MS	Harith Danial Bin Shaik Mohd Sheriff – Sustainable Networked Charging Station for Electric and Hybrid	On-going	
17	MS	Noor Muhammad Bin Abdul Rahman (GS37586) – Development of Energy Efficiency Index Baseline as Benchmarking for Government Hospitals for Energy Saving Target	On-going	
18	MS	Ahmed Sahib Hammadi (GS41272) – A New Multi-Objective Function Based on Artificial Intelligence Techniques for Optimum Location and Sizing of Distributed Generations (DG) in the Distribution System	Completed	2016
19	MS	Muawiya Abubakar Kaigama (GS38339) – Design And Implementation of Domestic Grid-Friendly Appliance Controller with Demand Response for Underfrequency Load Shaving	Completed	2016
20	MS	Amirah binti Mohamed (GS36160) – Artificial Neural Network Approach of Energy Forecasting for Photovoltaic Generators in the Tropics	Completed	2015
21	MS	Shojaeddin Mirfendereski (GS30935) - Small Signal Oscillatory Instability Control Of Power System Using POSICAST Controller And Evolutionary Programming	Completed	2014
22	MS	Radin Za'im Bin Radin Umar (GS31092) – Numerical Analysis of a Wireless Energy Transfer System Via Resonance of Magnetic Induction	Completed	2013

**MS without Thesis (Main Supervisor)**

No.	Name	Title	Status
-----	------	-------	--------