

CURRICULUM VITAE



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Education

1. Ph. D. (Nottingham, UNITED KINGDOM), 2007
2. BEng (Hons) (UKM, MALAYSIA), 2000

Areas of Interest

1. Electrical Power Engineering
2. Grounding System
3. Lightning Protection System
4. Electromagnetic Compatibility (EMC)
5. Transmission-Line Modelling (TLM) Method
6. Single Long Horizontal Ground Conductor
7. Thin Wire
8. Radio Frequency Electromagnetic Field (RF EMF)

Professional Qualification/Membership/Affiliation

1. Member, Board of Engineers Malaysia (BEM)
2. Member, Institute of Electrical and Electronics Engineers (IEEE)

Appointments

Position	Duration
1. Deputy Head (Collaboration and Networking), Centre for Electromagnetic and Lightning Protection Research (CELP), Faculty of Engineering, UPM.	2008 – Present
2. Senior Lecturer, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM	1 Jan 2009 – Present
3. Lecturer, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM	13 Jul 2007 – 31 Dec 2008
4. Tutor, Department of Electrical and Electronic Engineering, Faculty of Engineering, UPM	18 Oct 2000 – 12 Jul 2007

List of Publications – Thesis

1. **W. F., Wan Ahmad**, *BEng Thesis: Multiple LEDs Optical Spectrometer (Spektrometer Optik Pelbagai LED)*, Universiti Kebangsaan Malaysia, Bangi, Selangor, MALAYSIA, 2000.
2. **W. F., Wan Ahmad**, *PhD Thesis: Modelling of Lightning Strike on an Earth Ground Conductor*, the University of Nottingham, Nottingham, UNITED KINGDOM, 2007.

List of Publications – Conference Proceeding Editorials

1. 2018 Malaysian High Voltage Network (MyHVnet) Colloquium, UPM, Serdang, MALAYSIA, 8 Feb 2018, MyHVnet Newsletter, No. 3, Jan 2018, ISSN 2462-1994.

List of Publications – Cited Journals

2008

1. **M. Z. A., Ab Kadir, W. F., Wan Ahmad, J., Jasni, and H., Hizam**, *The Importance of Corona Effect in Lightning Surge Propagation Studies*, Journal of Applied Sciences (JAS), Vol. 8, No. 19, pp. 3446-3452, 2008. **(refereed and indexed in SCOPUS)**

2009

2. **A. D., Usman, W. F., Wan Ahmad, M. Z. A., Ab Kadir, and M., Mokhtar**, *Wireless Phones Electromagnetic Field Radiation Exposure Assessment*, American Journal of Applied Science (AJEAS), Vol. 2, No. 4, pp. 771-774, 2009, ISSN: 1941-7020.

2010

3. **M., Izadi, M. Z. A., Ab Kadir, C., Gomes, and W. F., Wan Ahmad**, *An Analytical Second-FDTD Method for Evaluation of Electric and Magnetic Fields at Intermediate Distances From Lightning Channel*, Progress In Electromagnetic Research (PIER), Vol. 110, pp. 329-352, 2010, ISSN: 1559-8985, Digital Object Identifier: 10.2528/PIER10080801. **(refereed and indexed in IEEE Xplore, SCOPUS; IF: 3.673)**

2011

4. **A. D., Usman, W. F., Wan Ahmad, M. Z. A., Ab Kadir, M., Mokhtar, and R., Ariffin**, *Thermographic Analysis of Wi-Fi Frequencies Exposed to Unrestrained Swiss Albino Mice*, International Journal of Physical Sciences (IJPS), Vol. 6, No. 36, pp. 8097-8104, 30 Dec 2011, ISSN: 1992-1950, Digital Object Identifier: 10.5897/IJPS11.240. **(refereed and indexed in SCOPUS; IF: 0.540)**
5. **A. M., Ariffen, M. Z. A., Ab Kadir, W. F., Wan Ahmad, and M. S. A., Ishak**, *The Modelling of Hybrid Surge Protection Circuit with Effect of Adding a Filter*, International Review on Modelling and Simulations (IREMOS), Vol. 4, No. 5, Part B, Oct 2011. **(refereed and indexed in SCOPUS)**
6. **M., Izadi, M. Z. A., Ab Kadir, C., Gomes, and W. F., Wan Ahmad**, *Evaluation of Electromagnetic Fields Due to Lightning Channel With Respect to The Striking Angle*, International Review of Electrical Engineering (IREE), Vol. 6, No. 2, Part B, pp. 1013-1023, 2011. **(refereed and indexed in SCOPUS)**
7. **M., Izadi, M. Z. A., Ab Kadir, C., Gomes, and W. F., Wan Ahmad**, *Numerical Expressions In Time Domain for Electromagnetic Fields Due to Lightning Channels*, International Journal of Applied Electromagnetics and Mechanics (IAEM), Vol. 37, No. 4, pp. 275-289, 2011. **(refereed and indexed in SCOPUS; IF: 0.336)**
8. **M., Izadi, M. Z. A., Ab Kadir, C., Gomes, and W. F., Wan Ahmad**, *Analytical Field Expressions due to Inclined Lightning Channel*, Przegląd Elektrotechniczny (Electrical Review), R. 87, NR. 11/2011, pp. 277-280, 2011, ISSN: 0033-2097. **(refereed and indexed in SCOPUS)**

2012

9. **A. D., Usman, W. F., Wan Ahmad, M. Z. A., Ab Kadir, M., Mokhtar, and A., Rusnani**, *Effect of Radiofrequency Electromagnetic Field Exposure on Hematological Parameters of Mice*, World Applied Sciences Journal (WASJ), Vol. 16, No. 5, pp. 656-664, 2012, ISSN: 1818-4952. **(refereed and indexed in SCOPUS)**
10. **A. D., Usman, W. F., Wan Ahmad, M. Z. A., Ab Kadir, M., Mokhtar, and A., Rusnani**, *Microwave Effect of 0.9 GHz and 1.8 GHz CW Frequencies Exposed to Unrestrained Swiss Albino Mice*, Progress In Electromagnetic Research B (PIER B), Vol. 36, pp. 69-87, 2012, ISSN: 1937-6472, Digital Object Identifier: 10.2528/PIERB11072709. **(refereed and indexed in SCOPUS; IF: 5.298)**
11. **M., Izadi, M. Z., Ab Kadir, C., Gomes and W. F., Wan Ahmad**, *Analytical Expressions for Electromagnetic Fields Associated with the Inclined Lightning Channels in the Time Domain*, Electric Power Components and Systems (EPCS), Vol. 40, No. 4, pp. 414-438, 2012, ISSN: 1532-5008, Digital Object Identifier: 10.1080/15325008.2011. **(refereed and indexed in SCOPUS; IF: 0.681)**

2015

12. **S. D., Buba, W. F., Wan Ahmad, M. Z. A., Ab Kadir, C., Gomes, J., Jasni, and M., Osman**, *Impact of Buried Conductor Length on Computation of Earth Grid Resistance*, International Journal of Applied Power Engineering (IJAPE), Vol. 4, No. 2, pp. 61-69, Aug 2015, ISSN: 2252-8792.

2016

13. **S. D., Buba, W. F., Wan Ahmad, M. Z. A., Ab Kadir, C., Gomes, J., Jasni, and M., Osman**, *Reduction of Earth Grid Resistance by Addition of Earth Rods to Various Grid Configurations*, ARPN Journal of Engineering and Applied Sciences, Vol. 11, No. 7, pp. 4533-4538, Apr 2016, ISSN: 1819-6608. **(refereed and indexed in SCOPUS; SNIP 2016: 0.391)**

2018

14. **Z., Abdulkareem, W. F. H., Wan Ahmad, J., Jasni, and N. I., Abdul Wahab**, *Application of Grouping Particle Swarm Optimization Algorithm For Optimal Placement and Sizing of Multi Distributed Generation*, submitted Engineering Applications of Artificial Intelligence (EAAI), 2018.

List of Publications – Non-cited Journals

2008

15. **M. Z. A., Ab Kadir, M. H., Ahmad, J., Jasni, and W. F., Wan Ahmad**, *Critical Review on the Need for Insulation Coordination Studies in Malaysia*, Journal of Industrial Technology (SIRIM), Vol. 17, No. 1, pp. 129-141, 2008.

2009

16. **H., Hizam, J., Jasni, M. Z. A., Ab Kadir, and W. F., Wan Ahmad**, *Fault Detection, Classification and Location on an Underground Cable Network Using Wavelet Transform*, International Journal of Engineering Technology (IJET), Vol. 6, No. 2, pp. 90-95, 2009, ISSN:1823-1039.

2011

17. **A. M., Ariffen, M. Z. A., Ab Kadir, and W. F., Wan Ahmad**, *The Development of Hybrid Surge Protection Circuit with Effect of Adding a Filter*, International Journal of Engineering & Technology (IJET-IJENS), Vol. 11, No. 2, pp. 37-44, Apr 2011, ISSN: 113502-0909.

List of Publications – Cited International Conferences Proceedings/Presentations

2008

1. **W. F., Wan Ahmad, D. W. P., Thomas, and C., Christopoulos**, *Modeling of a Ground Wire using TLM*, Proceedings of the 2008 IEEE Power Engineering Society Transmission and Distribution Conference and Exposition (2008 IEEE PES TD), Chicago, Illinois, USA, 21-24 Apr 2008, ISBN: 978-1-4244-1903-6, Digital Object Identifier: 10.1109/TDC.2008.4517056. **(refereed and indexed in IEEE Xplore on 12 May 2008, SCOPUS)**

2. **W. F., Wan Ahmad, D. W. P., Thomas, and C., Christopoulos**, *Thin Wire Formulation for 3-D Modeling of a Ground Wire*, Proceedings of the 2008 IEEE Power Engineering Society Transmission and Distribution Conference and Exposition (2008 IEEE PES TD), Chicago, Illinois, USA, 21-24 Apr 2008, ISBN: 978-1-4244-1903-6, Digital Object Identifier: 10.1109/TDC.2008.4517167. (**refereed and indexed in IEEE Xplore on 12 May 2008, SCOPUS**)
3. **W. F., Wan Ahmad, D. W. P., Thomas, C., Christopoulos, M. A., Drahman, J., Jasni, M. Z. A., Ab Kadir, and H., Hizam**, *Study on Various Excitation Voltage Effects to the Transient Responses of a Single Long Horizontal Ground Conductor*, Proceedings of the IEEE 2nd International Power and Energy Conference (PECon 2008), Johor Bahru, Johor, MALAYSIA, pp. 362-366, 1-3 Dec 2008, ISBN: 978-1-4244-2404-7, Digital Object Identifier: 10.1109/PECON.2008.4762500. (**refereed and indexed in IEEE Xplore on 27 Jan 2009, SCOPUS**)
4. **W. F., Wan Ahmad, D. W. P., Thomas, C., Christopoulos, M. S., Mohamad Hashim, J., Jasni, M. Z. A., Ab Kadir, and H., Hizam**, *Effects of Homogenous Soil Characteristics to the Transient Responses of a Single Long Horizontal Ground Conductor Model*, Proceedings of the IEEE 2nd International Power and Energy Conference (PECon 2008), Johor Bahru, Johor, MALAYSIA, pp. 367-371, 1-3 Dec 2008, ISBN: 978-1-4244-2404-7, Digital Object Identifier: 10.1109/PECON.2008.4762501. (**refereed and indexed in IEEE Xplore on 27 Jan 2009, SCOPUS**)
5. **W. F., Wan Ahmad, D. W. P., Thomas, C., Christopoulos, K. A., Mohd Sharim, J., Jasni, M. Z. A., Ab Kadir, and H., Hizam**, *Transient Responses due to Various Burial Depths on a Single Long Horizontal Ground Conductor*, Proceedings of the IEEE 2nd International Power and Energy Conference (PECon 2008), Johor Bahru, Johor, MALAYSIA, pp. 372-377, 1-3 Dec 2008, ISBN: 978-1-4244-2404-7, Digital Object Identifier: 10.1109/PECON.2008.4762502. (**refereed and indexed in IEEE Xplore on 27 Jan 2009, SCOPUS**)
6. **J., Sardi, M. Z. A., Ab Kadir, H., Hizam, W. F., Wan Ahmad, I., Mohamed Rawi, and A., Ahmad**, *Backflashover Analysis for 132 kV Kuala Krai-Gua Musang Transmission Lines*, Proceedings of the IEEE 2nd International Power and Energy Conference (PECon 2008), Johor Bahru, Johor, MALAYSIA, pp. 1494-1497, 1-3 Dec 2008, ISBN: 978-1-4244-2404-7, Digital Object Identifier: 10.1109/PECON.2008.4762716. (**refereed and indexed in IEEE Xplore on 27 Jan 2009, SCOPUS**)
7. **A. D., Usman, and W. F., Wan Ahmad**, *RF EM Exposure: the Issues, the Debate and the Realities*, Proceedings of the 2008 IEEE International RF and Microwave Conference (RFM 2008), Kuala Lumpur, MALAYSIA, pp. 41-45, 2-4 Dec 2008, ISBN: 978-1-4244-2866-3, Digital Object Identifier: 10.1109/RFM.2008.4897381. (**refereed and indexed in IEEE Xplore on 28 Apr 2009, SCOPUS**)

2009

8. **W. F., Wan Ahmad, D. W. P., Thomas, C., Christopoulos, S. T., Chong, J., Jasni, M. Z. A., Ab Kadir, and H., Hizam**, *Effective Length of a Single Long Horizontal Ground Conductor Buried in Homogeneous Soil*, Proceedings of the 2009 IEEE PES Power Systems Conference and Exposition (2009 IEEE PES PS), Seattle, Washington, USA, 15-18 Mar 2009, ISBN: 978-1-4244-3810-5, Digital Object Identifier: 10.1109/PSCE.2009.4840161. (**refereed and indexed in IEEE Xplore on 24 Apr 2009, SCOPUS**)
9. **M., Izadi, M. Z. A., Ab Kadir, W. F., Wan Ahmad, Z., Mohd Nawi, and M. T., Askari**, *On Comparison between Cooray-Rubinstein and FDTD Methods for Ground Conductivity Effect on Horizontal Electric Field Evaluation in Time Domain*, Proceedings of the 2009 IEEE Student Conference on Research and Development (SCOReD 2009), UPM Serdang, Selangor, MALAYSIA, pp. 336-340, 16-18 Nov 2009, ISBN: 978-1-4244-5186-9, Digital Object Identifier: 10.1109/SCORED.2009.5443007. (**refereed and indexed in IEEE Xplore on 5 Apr 2010, SCOPUS**)
10. **M., Aminian, M. Z. A., Ab Kadir, W. F., Wan Ahmad, and S. M., Abdullah**, *Investigation of Paper Aging Assessment by Furan Concentration Monitoring*, Proceedings of the 2009 IEEE Student Conference on Research and Development (SCOReD 2009), UPM Serdang, Selangor, MALAYSIA, pp. 360-362, 16-18 Nov 2009, ISBN:978-1-4244-5186-9, Digital Object

Identifier:10.1109/SCORED.2009.5443001. *(refereed and indexed in IEEE Xplore on 5 Apr 2010, SCOPUS)*

11. **M. T., Askari, M. Z. A., Ab Kadir, W. F., Wan Ahmad, and M., Izadi**, *Investigate the Effect of Variations of Ambient Temperature on HST of Transformer*, Proceedings of the 2009 IEEE Student Conference on Research and Development (SCORED 2009), UPM Serdang, Selangor, MALAYSIA, pp. 363-367, 16-18 Nov 2009, ISBN: 978-1-4244-5186-9, Digital Object Identifier:10.1109/SCORED.2009.5442998. *(refereed and indexed in IEEE Xplore on 5 Apr 2010, SCOPUS)*

2010

12. **W. F., Wan Ahmad, M. S., Abdul Rahman, J., Jasni, M. Z. A., Ab Kadir, and H., Hizam**, *Chemical Enhancement Materials for Grounding Purposes*, Proceedings of the 30th International Conference on Lightning Protection 2010 (ICLP 2010), Cagliari, Sardinia, ITALY, pp. 1106-1-1106-6, 13-17 Sep 2010, Electronic ISBN: 978-88-905519-0-1, Print on Demand (PoD) ISBN: 978-1-5090-6679-7, Digital Object Identifier: 10.1109/ICLP.2010.7845836. *(refereed and indexed in IEEE Xplore on 9 Feb 2017, SCOPUS in 2017)*
13. **J., Jasni, S. L., Khai, M. Z. A., Ab Kadir, and W. F., Wan Ahmad**, *Natural Additive Filler Materials for Grounding Protection System*, Proceedings of the 30th International Conference on Lightning Protection 2010 (ICLP 2010), Cagliari, Sardinia, ITALY, pp. 1-6, 13-17 Sep 2010, **Electronic ISBN: 978-88-905519-0-1, Print on Demand (PoD) ISBN: 978-1-5090-6679-7**, Digital Object Identifier: 10.1109/ICLP.2010.7845832. *(refereed and indexed in IEEE Xplore on 9 Feb 2017, SCOPUS in 2017)*
14. **M. A., Murad, F., Malek, A., Rusnani, W. F., Wan Ahmad, and A. D., Usman**, *Thermographic Measurements on Unrestrained Swiss Albino Mice Exposed to Non-Ionizing Electromagnetic Field (EMF) of 2.14 GHz UMTS Downlink Frequency*, Proceedings of the 2010 IEEE Symposium on Industrial Electronics and Applications (ISIEA 2010), Penang, MALAYSIA, pp. 417-422, 3-5 Oct 2010, ISBN: 978-1-4244-7645-9, Digital Object Identifier:10.1109/ISIEA.2010.5679429. *(refereed and indexed in IEEE Xplore on 6 Jan 2011, SCOPUS)*

2011

15. **A. D., Usman, W. F., Wan Ahmad, M. Z. A., Ab Kadir, M., Mokhtar, and A., Rusnani**, *Thermographic Analysis of Swiss Albino Mice Exposed to 1.8 GHz GSM Frequency*, Proceedings of the Progress In Electromagnetics Research Symposium 2011 (PIERS 2011), Marrakesh, MOROCCO, pp. 110-115, 20-23 Mar 2011, ISSN: 1559-9450, ISBN: 978-1-61782-787-7. *(refereed and indexed in SCOPUS)*
16. **A. D., Usman, W. F., Wan Ahmad, M. Z. A., Ab Kadir, M., Mokhtar, and M. A., Zainal Abidin**, *Densitometry of EMF Exposure due to Wi-Fi Frequency*, Proceedings of the Progress In Electromagnetics Research Symposium 2011 (PIERS 2011), Marrakesh, MOROCCO, pp. 1385-1390, 20-23 Mar 2011, ISSN: 1559-9450, ISBN: 978-1-61782-787-7. *(refereed and indexed in SCOPUS)*
17. **Z., Mohd Nawi, M. Z. A., Ab Kadir, and W. F., Wan Ahmad**, *On the Placement of Line Arrester on Underbuilt Overhead Distribution Line*, Proceedings of the 2011 4th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO 2011), Kuala Lumpur, MALAYSIA, pp. 1-6, 19-21 Apr 2011, ISBN: 978-1-4577-0003-3, Digital Object Identifier: 10.1109/ICMSAO.2011.5775628. *(refereed and indexed in IEEE Xplore on 27 May 2011, SCOPUS)*

2012

18. **M., Izadi, M. Z. A., Ab Kadir, C., Gomes, and W. F., Wan Ahmad**, *Channel Base Current Effects on the Magnetic Flux Density Waveshape Associated with Vertical Lightning Channel*, Proceedings of the Progress In Electromagnetics Research Symposium 2012 (PIERS 2012), Kuala Lumpur, MALAYSIA, 27-30 Mar 2012. *(refereed and indexed in SCOPUS)*
19. **L. W., Choun, C., Gomes, M. Z. A., Ab Kadir, and W. F., Wan Ahmad**, *Analysis of Earth Resistance of Electrodes and Soil Resistivity at Different Environments*, Proceedings of the

31stInternational Conference on Lightning Protection 2012 (ICLP 2012), Vienna, AUSTRIA, 2-7 Sep 2012, ISBN: 978-1-4673-1898-3, Digital Object Identifier: 10.1109/ICLP.2012.6344314. (**refereed and indexed in IEEE Xplore on 12 Nov 2012, SCOPUS**)

20. **M. Z. A., Ab Kadir, N. R., Misbah, C., Gomes, J., Jasni, W. F., Wan Ahmad, and M. K., Hassan, Recent Statistics on Lightning Fatalities in Malaysia**, Proceedings of the 31st International Conference on Lightning Protection 2012 (ICLP 2012), Vienna, AUSTRIA, 2-7 Sep 2012, ISBN: 978-1-4673-1898-3, Digital Object Identifier:10.1109/ICLP.2012.6344337. (**refereed and indexed in IEEE Xplore on 12 Nov 2012, SCOPUS**)

2013

21. **M., Aminian, M. Z. A., Ab Kadir, A., Salmiaton, W. F., Wan Ahmad, M. T., Ishak, and M., Izadi, Correlation of Furfural and Moisture Content with Age of Transformers**, Proceedings of the 2013 IEEE 7th International Power Engineering and Optimization Conference (PEOCO 2013), Langkawi, Kedah, MALAYSIA, pp. 366-368, 3-4 Jun 2013, ISBN: 978-1-4673-5072-3, Digital Object Identifier: 10.1109/PEOCO.2013.6564574. (**refereed and indexed in IEEE Xplore on 22 Jul 2013, SCOPUS**)

2014

22. **S. D., Buba, W. F., Wan Ahmad, M. Z. A., Ab Kadir, C., Gomes, J., Jasni, and M., Osman, Design of Distribution Substation Earth Grid in High Resistivity Soil Using CDEGS**, Proceedings of the 2014 IEEE 8th International Power Engineering and Optimization Conference (PEOCO 2014), Langkawi, Kedah, MALAYSIA, pp. 508-513, 24-25 Mar 2014, ISBN: 978-1-4799-2421-9, Digital Object Identifier: 10.1109/PEOCO.2014.6814482. (**refereed and indexed in IEEE Xplore on 15 May 2014, SCOPUS**)
23. **S. D., Buba, W. F., Wan Ahmad, M. Z. A., Ab Kadir, C., Gomes, J., Jasni, and M., Osman, Impact of Split Factor Value on the Safe Design of Distribution Substation Earth Grid**, Proceedings of the 32nd International Conference on Lightning Protection 2014 (ICLP 2014), Shanghai, CHINA, pp. 762-767, 13-17 Oct 2014, Digital Object Identifier: 10.1109/ICLP.2014.6973225, INSPEC Accession Number: 14806056. (**refereed and indexed in IEEE Xplore on 4 Dec 2014, SCOPUS**)
24. **A. K., Mary, C., Gomes, A. Gomes, and W. F., Wan Ahmad, Lightning Hazard Mitigation in Uganda**, Proceedings of the 32nd International Conference on Lightning Protection 2014 (ICLP 2014), Shanghai, CHINA, pp. 1770-1779, 13-17 Oct 2014, Digital Object Identifier: 10.1109/ICLP.2014.6973416, INSPEC Accession Number: 14792245. (**refereed and indexed in IEEE Xplore on 4 Dec 2014, SCOPUS**)
25. **S. D., Buba, W. F., Wan Ahmad, M. Z. A., Ab Kadir, C., Gomes, J., Jasni, and M., Osman, Effect of Earth Grid Conductor Spacing on the Safety Criteria of Substation Earthing**, Proceedings of the 2014 IEEE International Conference on Power and Energy (PECon 2014), Kuching, Sarawak, MALAYSIA, pp. 134-139, 1-3 Dec 2014, ISBN:978-1-4799-7296-8, Digital Object Identifier:10.1109/PECON.2014.7062428, INSPEC Accession Number:14999897. (**refereed and indexed in IEEE Xplore on 19 Mar 2015, SCOPUS**)
26. **S. D., Buba, W. F., Wan Ahmad, M. Z. A., Ab Kadir, C., Gomes, J., Jasni, and M., Osman, Impact of Energization Current on the Safe Design of Distribution Substation Earth Grid**, Proceedings of the 2014 IEEE International Conference on Power and Energy (PECon 2014), Kuching, Sarawak, MALAYSIA, pp. 201-205, 1-3 Dec 2014, ISBN:978-1-4799-7296-8, Digital Object Identifier:10.1109/PECON.2014.7062441, INSPEC Accession Number:14999923. (**refereed and indexed in IEEE Xplore on 19 Mar 2015, SCOPUS**)

2015

27. **W. F. H., Wan Ahmad, K. H., Tan, M. Z. A., Ab Kadir, and J., Jasni, Performance of Sodium Chloride, Bentonite and Conductive Cement as Grounding Enhancement Materials**, 2015 Asia-Pacific International Conference on Lightning (APL 2015), Nagoya, JAPAN, 23-27 Jun 2015.
28. **W. F. H., Wan Ahmad, K. S., Ong, M. Z. A., Ab Kadir, and J., Jasni, Soil Treatment for Grounding System Purposes using Sodium Thiosulphate**, 2015 Asia-Pacific International Conference on Lightning (APL 2015), Nagoya, JAPAN, 23-27 Jun 2015.

29. **W. F. H., Wan Ahmad, C. S., Lee, M. Z. A., Ab Kadir, J., Jasni, and N. M., Yusoff**, *Grounding Installation Study using Ground Conductors for Different pH Levels of the Soil*, 2015 Asia-Pacific International Conference on Lightning (APL 2015), Nagoya, JAPAN, 23-27 Jun 2015.

2016

30. **Z., Burhanuddin, C., Gomes, A., Gomes, M. Z. K., Ab Kadir, W. F., Wan Ahmad, and N., Azis**, *Characteristics of Fulgurite-Like Structures under HV Conditions: Effects on Electrical Earthing Systems*, Proceedings of the 33rd International Conference on Lightning Protection 2016 (ICLP 2016), Estoril, PORTUGAL, 25-30 Sep 2016, Digital Object Identifier: 10.1109/ICLP.2016.7791435. **(refereed and indexed in IEEE Xplore on 22 Dec 2016, SCOPUS)**
31. **Z., Abdulkareem, W. F. H., Wan Ahmad, J., Jasni, and N. I., Abdul Wahab**, *A Review on Optimal Location of Distributed Generation Technique in Electrical Network*, Proceedings of the 2016 IEEE International Conference on Power and Energy (PECon 2016), Melaka, MALAYSIA, pp. 632-636, 28-29 Nov 2016, Electronic ISBN: 978-1-5090-2547-3, USB ISBN: 978-1-5090-2546-6, Print on Demand (PoD) ISBN: 978-1-5090-2548-0, Digital Object Identifier: 10.1109/PECON.2016.7951637, INSPEC Accession Number: 16969047. **(refereed and indexed in IEEE Xplore on 19 Jun 2017, SCOPUS in 2017)**

2017

32. **F., Hamamah, W. F. H., Wan Ahmad, C., Gomes, M., Mohd. Isa, M. J., Homam**, *High Power Microwave Devices: Development Since 1880*, Proceedings of the 2017 Asia Pacific Microwave Conference (APMC 2017), Kuala Lumpur, MALAYSIA, pp. 825-828, 13-16 Nov 2017, Electronic ISBN: 978-1-5386-0640-7, USB ISBN: 978-1-5386-0639-1, Print on Demand (PoD) ISBN: 978-1-5386-0641-4, Digital Object Identifier: 10.1109/APMC.2017.8251576. **(refereed and indexed in IEEE Xplore on 11 Jan 2018, SCOPUS in 2018)**
33. **W. L., Lai, W. F. H., Wan Ahmad, J., Jasni, and M. Z. A., Ab Kadir**, *A Review on the Usage of Zeolite, Perlite and Vermiculite as Natural Enhancement Materials for Grounding System Installations*, Proceedings of the 2017 IEEE Student Conference on Research and Development (SCORED 2017), Putrajaya, MALAYSIA, pp. 338-343, 13-14 Dec 2017, Electronic ISBN: 978-1-5386-2126-4, USB ISBN: 978-1-5386-2125-7, Print on Demand (PoD) ISBN: 978-1-5386-2127-1, Digital Object Identifier: 10.1109/SCORED.2017.8305368. **(refereed and indexed in IEEE Xplore on 1 Mar 2018, SCOPUS in 2018)**

2018

34. **W. L., Lai, W. F. H., Wan Ahmad, J., Jasni, M. Z. A., Ab-Kadir**, *Variations of Soil Resistivity Values due to Grounding System Installations with Natural Enhancement Material Mixtures*, accepted for oral presentation to Proceedings of the 34th International Conference on Lightning Protection 2018 (ICLP 2018), Rzeszow, POLAND, 2-7 Sep 2018.
35. **W. F. H., Wan Ahmad, N. H., Hamzah, J., Jasni, M. Z. A., Ab Kadir, and C., Gomes**, *A Study on Bentonite and Kenaf Properties for Grounding Purposes*, accepted for oral presentation to Proceedings of the 34th International Conference on Lightning Protection 2018 (ICLP 2018), Rzeszow, POLAND, 2-7 Sep 2018.
36. **F., Hamamah, W. F. H., Wan Ahmad, C., Gomes, M., Mohd. Isa, M. J., Homam**, *Intentional Electromagnetic Interference Incidents related to HEMP Sources*, submitted to Proceedings of the 2018 Asia Pacific Microwave Conference (APMC 2018), Kyoto, JAPAN, 6-9 Nov 2018.
37. **F., Hamamah, W. F. H., Wan Ahmad, C., Gomes, M., Mohd. Isa, M. J., Homam**, *Intentional Electromagnetic Interference Incidents related to HPEM Sources*, submitted to Proceedings of the 2018 Asia Pacific Microwave Conference (APMC 2018), Kyoto, JAPAN, 6-9 Nov 2018.

List of Publications – Non-cited Conferences Proceedings/Presentations

2007

38. **H., Hizam, J., Jasni, N., Azis, M. Z. A., Ab Kadir, and W. F., Wan Ahmad**, *Determination of Proximity to Static Voltage Collapse Using Continuation Power Flow Method*, World Engineering Congress 2007 (WEC 2007), Pulau Pinang, MALAYSIA, pp. 101-109, 5-9 Aug 2007, ISBN: 978-983-41705-6-1.
39. **M. Z. A., Ab Kadir, N., Zakaria, J., Jasni, H., Ahmad, W. F., Wan Ahmad, and H., Hizam**, *Insulation Coordination Study for Transformer Protection*, World Engineering Congress 2007 (WEC 2007), Pulau Pinang, MALAYSIA, pp. 165-174, 5-9 Aug 2007, ISBN: 978-983-41705-6-1.
40. **W. F., Wan Ahmad, D. W. P., Thomas, C., Christopoulos, J., Jasni, M. Z. A., Ab Kadir, and H., Hizam**, *Modelling of a Ground Wire using TLM*, World Engineering Congress 2007 (WEC 2007), Pulau Pinang, MALAYSIA, pp. 185-193, 5-9 Aug 2007, ISBN: 978-983-41705-6-1.

2008

41. **A. D., Usman, and W. F., Wan Ahmad**, *Non-Ionizing Radiation: the Effect, the Debate and the Realities*, Advanced Seminar on Non-Ionizing Radiation, Pulau Pinang, MALAYSIA, 23-25 Nov 2008.
42. **H., Hizam, J., Jasni, M. Z. A., Ab Kadir, and W. F., Wan Ahmad**, *Fault Detection, Classification and Location on an Underground Cable Network using Wavelet Transform*, Symposium on Engineering and Technology (SET 2008), Kuching, Sarawak, MALAYSIA, 15-17 Dec 2008.
43. **A. D., Usman, W. F., Wan Ahmad, M. Z. A., Ab Kadir, and M., Mokhtar**, *Non-Ionizing Radiation: the Benefit and the Concern*, Malaysian Science and Technology Congress 2008 (MSTC 2008), Kuala Lumpur, MALAYSIA, pp. 405-411 (pp. 1-7), 16-17 Dec 2008.

2010

44. **M., Aminian, M. Z. A., Ab Kadir, W. F., Wan Ahmad, A., Salmiaton, and M. A., Talib**, *Transformer Insulation Assessment by Spectroscopic Methods: Possibility and Ability*, World Engineering Congress 2010 (WEC 2010), Kuching, Sarawak, MALAYSIA, pp. 327-332, 2-5 Aug 2010.

2016

45. **Z., Abdulkareem, W. F. H., Wan Ahmad, J., Jasni, and N. I., Abdul Wahab**, *Optimal Estimation of Distributed Generation Location*, 2016 Malaysian High Voltage Network (MyHVnet) Colloquium, UTM, Johor Bahru, MALAYSIA, 25 Jan 2016, MyHVnet Newsletter, No. 1, pp. 59, Jan 2016, ISSN 2462-1994.
46. **W. L., Lai, W. F. H., Wan Ahmad, J., Jasni, and M. Z. A., Ab Kadir**, *A Study on Comparing the Performance of Bentonite, Kenaf and Zeolite to Reduce Earth Resistance*, 2016 Malaysian High Voltage Network (MyHVnet) Colloquium, UTM, Johor Bahru, MALAYSIA, 25 Jan 2016, MyHVnet Newsletter, No. 1, pp. 66, Jan 2016, ISSN 2462-1994.

2018

47. **Z., Abdulkareem, W. F. H., Wan Ahmad, J., Jasni, and N. I., Abdul Wahab**, *Optimal Location and Suitable Size of Distributed Generations by Employing Grouping Artificial Intelligence Algorithms*, 2018 Malaysian High Voltage Network (MyHVnet) Colloquium, UPM, Serdang, MALAYSIA, 8 Feb 2018, MyHVnet Newsletter, No. 3, pp. 60, Jan 2018, ISSN 2462-1994.

List of Publications – Articles in Magazine

2012

1. *Mobile Phone Impact = A Cup of Coffee (Impak Telefon Bimbit = Secawan Kopi)*, iSIHAT Magazine, No. 5, pp. 12-19, May 2012, (Contributor).

2017

2. **W. F., Wan Ahmad**, *2017 MyHVnet AGM*, MyHVnet Newsletter, No. 2, Jan 2017, ISSN: 2462-1994.

List of Publications – Exhibitions

2009

1. **M. Z. A., Ab Kadir, J., Sardi, H., Mohamed Ariff, J., Jasni, H., Hizam, and W. F., Wan Ahmad,** *Transient Modeling Technique for Estimating Lightning Performance on Transmission Line,* Malaysia Technology Expo 2009 (MTE 2009), 19-21 Feb 2009, Kuala Lumpur, MALAYSIA – awarded Bronze Medal.

Research Grants

No.	Duration	Title	Funding	Amount (RM)	Role
1.	1 Mar 2008 - 1 Mar 2010 24 months	A Randomised Leader Progression Model for Backflashover Studies and Evaluation of Lightning Performance on Transmission and Substation	ESF <i>Project No.:</i> 03-01-04-SF0902	234,000.00 <i>Vote:</i> 5450423	Member
2.	1 Jul 2008 - 30 Jun 2009 12 months	A Time Domain Study on Transient Responses of the Wind Turbine Tower in a Windfarm	RUGS <i>Project No.:</i> 05-03-08-0488RU	30,000.00 <i>Vote:</i> 91493	Leader
3.	16 Nov 2009 - 16 Nov 2011 24 months	Characteristic and Performance Study of Superconductor Application on Power Transmission	RUGS <i>Project No.:</i> 05-01-09-0857RU	30,000.00 <i>Vote:</i> 91862	Member
4.	10 Feb 2010 - 9 Feb 2012 24 months	Characterization and Determination of Lightning Induced Overvoltage for Sustainable Lightning Protection Systems in Tropical Climate	RUGS <i>Project No.:</i> 05-01-10-0898RU	130,000.00 <i>Vote:</i> 91903	Member
5.	1 Jun 2010 - 31 May 2012 24 months	Fundamental Study on Prediction Model of Chemical Enhancement Materials for Grounding Purposes	FRGS <i>Project No.:</i> 03-04-10-806FR	44,000.00 <i>Vote:</i> 5523846	Leader
6.	1 Dec 2014 - 30 Nov 2016 24 months	Separation Distance Study for Safety Purposes of Distribution Substation Earth Grid	FRGS <i>Project No.:</i> 03-02-14-1526FR FRGS/2/2014/ TK03/UPM/02/4	RM 103,000.00 <i>Vote:</i> 5524610	Leader
7.	1 Jan 2015 - 1 Jan 2017 24 months	Thermodynamic Modelling of Distribution Transformers with the Consideration of Different Cooling Materials	GP-IPB <i>Project No.:</i> GP-IPB/2014/ 9440802	RM 124,200.00 <i>Vote:</i> 9440802	Member
8.	15 Aug 2017 - 14 Aug 2019 24 months	Characterisations of solar disturbance effects on the electric power system network for	FRGS <i>Project No.:</i> FRGS/1/2017/ STG09/UTHM/02/1	RM 65,200.00	Member

power quality monitoring
and mitigation

9.	15 Dec 2017 - 15 Dec 2019	Designing an HPM Generator-Antenna System to Tackle the IEMI Issues	GP	RM 50,000.00	Leader
	24 months		<i>Project No.:</i> GP/2017/ 9584200	<i>Vote:</i> 9584200	

Awards/Recognitions

No.	Name of awards	Title	Award Authority	Award Type	Year
1.	Excellent Service in Teaching Year 2007 (Perkhidmatan Cemerlang dalam Pengajaran Tahun 2007)		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching	4 Dec 2007
2.	Excellent Service in Teaching Year 2008 (Perkhidmatan Cemerlang dalam Pengajaran Tahun 2008)		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching	18 Dec 2008
3.	Silver Medal	<i>Class A Surge Protective Device for Transient Protection</i>	Universiti Putra Malaysia (UPM) at Pameran Rekacipta, Penyelidikan dan Inovasi (PRPI), Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Research	2008
4.	Bronze Medal	<i>Transient Modeling Technique for Estimating Lightning Performance on Transmission Line</i>	Malaysian Association of Research Scientists (MARS) at Malaysia Technology Expo 2009 (MTE 2009), Putra World Trade Centre, Kuala Lumpur, MALAYSIA	Research	19-21 Feb 2009
5.	Excellent Performance Award Year 2008 (Anugerah Perkhidmatan Cemerlang Tahun 2008)		Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Performance	19 Oct 2009
6.	Excellence in Teaching Year 2009 (Kecemerlangan dalam Pengajaran Tahun 2009)		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching	23 Dec 2009
7.	Silver Medal	<i>Transient Modeling Technique for Analysing Lightning Effect and SPD Design</i>	INNOVA/EUREKA Brussels at The Belgian and International Trade Fair for Technical, Brussels, BELGIUM	Research	2009

			<u>W. F., Wan Ahmad)</u>	
8.	Excellence in Teaching Year 2010 <i>(Kecemerlangan dalam Pengajaran Tahun 2010)</i>		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching 31 Dec 2010
9.	Excellence in Teaching Year 2011 <i>(Kecemerlangan dalam Pengajaran Tahun 2011)</i>		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching 16 Dec 2011
10.	Best Final Year Project	<i>Performance of Sodium Chloride, Bentonite and Conductive Cement as Grounding Enhancement Materials</i>	Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA at Majlis Kecemerlangan Graduan Sesi 2010/2011	Research 2011 <u>(K. H., Tan, and W. F. H., Wan Ahmad)</u>
11.	Excellent Performance Year 2011 <i>(Perkhidmatan Cemerlang Tahun 2011)</i>		Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Performance 26 Jun 2012
12.	Award of Excellence in Teaching Year 2012 <i>(Anugerah Kecemerlangan dalam Pengajaran Tahun 2012)</i>		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching 27 Dec 2012
13.	First Prize in FYP Presentation and Exhibition 2014/2015	<i>A Study on Bentonite and Kenaf Properties for Grounding Purposes</i>	Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Research 2015 <u>(N. H., Hamzah, and W. F. H., Wan Ahmad)</u>
14.	Award of Excellence in Teaching Year 2016 <i>(Anugerah Kecemerlangan dalam Pengajaran Tahun 2016)</i>		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching Feb 2017
15.	Shortlisted in IEEE SS12 2017 Malaysia, Penang	<i>Performance of Bentonite and Kenaf Mixtures as Grounding Enhancement Materials</i>	IEEE Malaysia Section, Penang, MALAYSIA	Research 2 Aug 2017 <u>(M. H., Mohamad Roslan, and W. F. H., Wan Ahmad)</u>
16.	First Prize in 2017 IEEE Malaysia FYP Competition (Track 1 : Power and Energy)	<i>Performance of Bentonite and Kenaf Mixtures as Grounding Enhancement Materials</i>	IEEE PES Malaysia Chapter at IEEE PES Malaysia Chapter 25th Annivesary Celebration, Bangi Golf Resort, Bangi, Selanor, MALAYSIA	Research 27 Oct 2017 <u>(M. H., Mohamad Roslan, and W. F. H., Wan Ahmad)</u>

17.	First Prize in 2017 IEEE Malaysia FYP Competition (Track 1 : Power and Energy)	<i>Performance of Bentonite and Kenaf Mixtures as Grounding Enhancement Materials</i>	IEEE Malaysia Section at 2017 IEEE Malaysia Student Congress, USM, Penang, MALAYSIA	Research (M. H., Mohamad Roslan, and W. F. H., Wan Ahmad)	18 Nov 2017
18.	Award of Excellence in Teaching Year 2017 (<i>Anugerah Kecemerlangan dalam Pengajaran Tahun 2017</i>)		Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Teaching	Apr 2018
19.	Gold Medal in Final Year Student Project Exhibition 2018	<i>Performance of Bentonite, Fly Ash and Wood Ash Mixtures as Grounding Enhancement Materials,</i>	Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Research (Y. J., Voon, and W. F. H., Wan Ahmad)	28 May 2018
20.	Silver Medal in Final Year Student Project Exhibition 2018	<i>Portable Natural Enhancement Material Resistivity Meter : A Prototype</i>	Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	Research (M. S., Azhari, and W. F. H., Wan Ahmad)	28 May 2018

Professional Services/Consultations

Administration / Management Works

No.	Designation	Name of the Committee / Event	Level	Duration
1.	Coordinator	Industrial Training Unit, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	1 Jul 2005 - 30 Sep 2006
2.	Coordinator	Electrical and Electronic Workshop KEE 010, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	17 Aug 2005 - 24 Nov 2006
3.	Quality Officer	Quality Assurance Unit, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Faculty	1 Aug 2007 - 2 Feb 2009
4.	Editor	Perintis Bulletin, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Faculty	13 Nov 2007 - 2 Feb 2009
5.	Committee	Engineering Website, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Faculty	10 Mar 2008 - 2 Feb 2009

6.	Auditor	Internal Auditing Series 1/2008 for Quality Management System: Teaching and Management Scope, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Faculty	2 May 2008 - 2 Feb 2009
7.	Secretary	Programme Structuring Committee for Master of Electrical Power Engineering (with Dissertation), Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	14 Sep 2008 - 31 Aug 2012
8.	Coordinator	Industrial Training Unit, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	1 Dec 2008 - 31 Dec 2009
9.	Auditor	Quality Management System: Research and Commercial Development Scope, The Office of the Deputy Vice Chancellor (Research and Innovation), Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	University	6 Oct 2008 - 5 Oct 2010
10.	Auditor	Internal Auditing Series 1B 2009 for Quality Management System: Research and Commercial Development Scope, The Office of the Deputy Vice Chancellor (Research and Innovation), Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	University	8-9 Jan 2009
11.	Head	Electrical Power Engineering Academic Division, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	1 May 2009 - 31 Mar 2011
12.	Coordinator	Unit of Industry and Community Relations, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Faculty	1 Jan 2010 - 1 Mar 2011
13.	Coordinator	Testing & Analysis Laboratory (<i>Makmal Pengujian & Analisis</i>), Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	1 Mar 2011 - 28 Feb 2013
14.	Final Year Project Presentation Moderator	Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	30 Dec 2011 - 31 Aug 2012
15.	Head	High Voltage Laboratory, Department of Electrical and	Department	3 Nov 2016 - 2 Nov 2018

		Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.		
16.	Advisor	IEEE Women in Engineering Affinity Group for UPM IEEE Student Branch, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	University	18 Nov 2016 - Present

Professional Services

No.	Designation	Name of the Committee / Event	Level	Duration
1.	Chairperson	Minggu Perkasa Putra - New Engineering Student Orientation Programme 2007/2008, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	Department	5 Jul 2007
2.	Session Chair	World Engineering Congress 2007 (WEC 2007), Penang, MALAYSIA, 5-9 Aug 2007.	International	5-9 Aug 2007
3.	Deputy Head (Collaboration and Networking)	Centre for Electromagnetic and Lightning Protection Research (CELP), Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	International	1 Jan 2008 - Present
4.	Departmental Representative	UPM Postgraduate Education Fair, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	University	28 Feb 2008 - 1 Mar 2008
5.	Speaker of "Briefing on Quality System Implementation in EEE, UPM" ("Taklimat Pelaksanaan Sistem Kualiti JKEE, UPM")	Technical Visit from Department of Electrical, Electronic and Systems Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia, Bangi, Selangor, MALAYSIA.	Department	26 Jun 2008
6.	Committee Member	A Two-Day Intensive Workshop on Lightning Protection, Kuala Lumpur, MALAYSIA, 17-18 Dec 2008.	National	17-18 Dec 2008
7.	Chairperson	A Two-Day Intensive Workshop on Lightning Protection, Kuala Lumpur, MALAYSIA, 17-18 Dec 2008.	National	17-18 Dec 2008
8.	Committee Member	2009 IEEE Student Conference on Research and Development (SCOReD 2009), UPM Serdang, Selangor, MALAYSIA, 16-18 Nov 2009.	International	13 May 2009 - 18 Nov 2009
9.	Session Chair	2009 IEEE Student Conference on Research and Development (SCOReD 2009), UPM Serdang,	International	16-18 Nov 2009

Selangor, MALAYSIA, 16-18 Nov 2009.				
10.	Technical Program Committee	Asia Pacific Conference on Circuits and Systems (IEEE APCCAS 2010), Kuala Lumpur, MALAYSIA, 6-9 Dec 2010.	International	1 Sep 2010 - 9 Dec 2010
11.	Technical Program Committee	2010 IEEE Student Conference on Research and Development (SCOReD 2010), Residence Hotel, Putrajaya, MALAYSIA, 13-14 Dec 2010.	International	1 Sep 2010 - 14 Dec 2010
12.	Program Committee	The 2nd International Conference on Information and Communication Technology 2014 (IColCT 2014), Bandung, INDONESIA, 28-30 May 2014.	International	18 Mar 2014 - 30 May 2014
13.	Session Chair	The 2014 IEEE International Conference on Power and Energy (PECon 2014), Kuching, Sarawak, MALAYSIA, 1-3 Dec 2014.	International	1-3 Dec 2014
14.	Technical Program Committee	The 3rd International Conference of Information and Communication Technology 2015 (IColCT 2015), Bali Nusa Dua Convention Center, Bali, INDONESIA, 27-29 May 2015.	International	12 Dec 2014 - 29 May 2015
15.	Program Committee	2015 IC Engineering & Computational Innovative Sciences (ENCINS 2015), Casablanca, MOROCCO, 20-23 Apr 2015.	International	21 Dec 2014 - 23 Apr 2015
16.	Secretary II	Malaysian High Voltage Network (MyHVnet)	International	26 Jan 2015 - 11 Jan 2017
17.	Technical Program Committee	2015 IEEE International Circuits and Systems Symposium (ICSyS 2015), Langkawi, Kedah, MALAYSIA, 2-4 Sep 2015.	International	5 Mar 2015 - 4 Sep 2015
18.	Program Committee	2015 World Symposium on Mechatronics Engineering & Applied Physics (WSMEAP 2015), Sousse, TUNISIA, 11-13 Jun 2015.	International	22 Mar 2015 - 13 Jun 2015
19.	Technical Program Committee	2015 International Conference on Mechanics & Applied Physics (ICMAPH 2015), Rome, ITALY, 5-7 Nov 2015.	International	7 Apr 2015 - 7 Nov 2015
20.	Program Committee	<i>The 4th International Conference on Information and Communication Technology</i> (IColCT 2016), The Papandayan Hotel, Bandung , INDONESIA, 25-27 May 2016.	International	29 Jan 2016 - 27 May 2016
21.	Technical Program Committee	International Conference on Cancer Diagnostic and Medical Treatment Approaches (ICCDMTA 2016), Rome, ITALY, 21-22 April 2016.	International	20 Feb 2016 - 22 Apr 2016
22.	Technical Program Committee	The International Conference on Electrical and Electronic	International	30 Apr 2016 - 26 Aug 2016

		Technology (ICEETech 2016), UPM, Serdang, MALAYSIA, 22-26 August 2016.		
23.	Technical Program Chair – Machine	The International Conference on Electrical and Electronic Technology (ICEETech 2016), UPM, Serdang, MALAYSIA, 22-26 August 2016.	International	30 Apr 2016 - 26 Aug 2016
24.	Technical Program Chair – High Voltage	The International Conference on Electrical and Electronic Technology (ICEETech 2016), UPM, Serdang, MALAYSIA, 22-26 August 2016.	International	30 Apr 2016 - 26 Aug 2016
25.	Secretary I	Malaysian High Voltage Network (MyHVnet)	International	12 Jan 2017 - Jan 2019
26.	Organizing Chair	2018 MyHVnet Colloquium, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	National	12 Jan 2017 - 8 Feb 2018
27.	General Co-Chair	2017 IEEE Student Conference on Research and Development (SCORED 2017), Putrajaya, MALAYSIA, 13-14 Dec 2017.	International	1 Mar 2017 - 14 Dec 2017
28.	Speaker	2017 IEEE Malaysia Student Branch Leadership Camp, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	National	11 Mar 2017
29.	Speaker of “Introduction to Electromagnetism”	Technical Visit from SMK King George V, Seremban, Negeri Sembilan, MALAYSIA.	Department	4 Apr 2017
30.	Judge	National Science Challenge 2017 – Selangor State Level, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA.	National	18 Jul 2017
31.	Secretariat	National Science Challenge 2017 – Selangor State Level, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA	National	18 Jul 2017
32.	Session Chair	2017 Asia Pacific Microwave Conference (APMC 2017), Kuala Lumpur, MALAYSIA, 13-16 Nov 2017.	International	14-16 Nov 2017
33.	Session Chair	2017 IEEE Student Conference on Research and Development (SCORED 2017), Putrajaya, MALAYSIA, 13-14 Dec 2017.	International	13-14 Dec 2017
34.	Speaker of “Grounding System”	Technical Visit to Shibaura Institute of Technology, Tokyo, JAPAN, 21-28 Jan 2018.	International	21-28 Jan 2018

Journal Paper Reviewers

No.	Type	Publication(s)	Duration
1.	Journal	International Journal of Nonlinear Sciences and Numerical Simulation (IJNSNS)	17 May 2009 - 31 May 2009

2.	Journal	International Journal of Engineering Education's Special Issue on Applications of Engineering Education Research (IJEE-AEER)	29 May 2009 - 26 Jun 2009
3.	Journal	Progress in Electromagnetic Research (PIER, PIER B,C,M, PIER Letters)	2 Mar 2015
4.	Journal	International Journal of Power Electronics and Drive Systems (IJPEDS), ISSN: 2088-8694	20 Feb 2016
5.	Conference into Journal	World Research & Innovation Convention on Engineering & Technology 2016 (WRICET 2016), into FEIIC International Journal for Engineering and Technology (FEIIC-IJET)	3 Feb 2017

Conference Paper Reviewers

No.	Type	Publication(s)	Duration
1.	Conference	Asia Pacific Defence and Security Technology Conference 2009 (DSTC 2009), Kuala Lumpur, MALAYSIA, 6-7 Oct 2009.	1 Jul 2009 - 7 Oct 2009
2.	Conference	30th International Conference on Lightning Protection 2010 (ICLP 2010), Cagliari, Sardinia, ITALY, 13-17 Sep 2010.	31 Jan 2010 - 17 Sep 2010
3.	Conference	The 4 th World Engineering Congress (WEC 2010), Kuching, Sarawak, MALAYSIA, 2-5 Aug 2010.	2 Feb 2010 - 5 Aug 2010
4.	Conference	The Asia-Pacific Symposium on Applied Electromagnetics and Mechanics (APSAEM 2010), Kuala Lumpur, MALAYSIA, 28-30 Jul 2010.	28-30 Jul 2010
5.	Conference	Asia Pacific Conference on Circuits and Systems (IEEE APCCAS 2010), Kuala Lumpur, MALAYSIA, 6-9 Dec 2010.	1 Sep 2010 - 9 Dec 2010
6.	Conference	2010 IEEE Student Conference on Research and Development (SCOReD 2010), Residence Hotel, Putrajaya, MALAYSIA, 13-14 Dec 2010.	1 Sep 2010 - 14 Dec 2010
7.	Conference	World Research & Innovation Convention on Engineering & Technology 2012 (WRICET 2012), Kuala Lumpur, MALAYSIA, 3-5 Dec 2012.	17 Sep 2012 - 5 Dec 2012
8.	Conference	The 2nd International Conference on Information and Communication Technology 2014 (ICoICT 2014), Bandung, INDONESIA, 28-30 May 2014.	18 Mar 2014 - 30 May 2014
9.	Conference	2014 IEEE Student Conference on Research and Development (IEEE SCOReD 2014), Penang, MALAYSIA, 16-17 Dec 2014.	11 Jul 2014 - 17 Dec 2014
10.	Conference	National Research & Innovation Conference for Graduate Students in Social Sciences 2014 (GS-NRIC 2014), Port Dickson, MALAYSIA, 5-7 Dec 2014.	28 Sep 2014 - 7 Dec 2014
11.	Conference	The 3rd International Conference of Information and Communication Technology 2015 (ICoICT 2015), Bali Nusa Dua Convention Center, Bali, INDONESIA, 27-29 May 2015.	12 Dec 2014 - 29 May 2015
12.	Conference	2015 IC Engineering & Computational Innovative Sciences (ENCINS 2015), Casablanca, MOROCCO, 20-23 Apr 2015.	21 Dec 2014 - 23 Apr 2015
13.	Conference	2015 IEEE International Circuits and Systems Symposium (ICSyS 2015), Langkawi, Kedah, MALAYSIA, 2-4 Sep 2015.	5 Mar 2015 - 4 Sep 2015
14.	Conference	2015 International Symposium on Social Sciences, Arts and Humanities (SYSSARM 2015), Bali, INDONESIA, 29 Sep 2015 - 1 Oct 2015.	21 Mar 2015 - 1 Oct 2015

15.	Conference	2015 Progress in Applied Mathematics in Science and Engineering (PIAMSE 2015), Bali, INDONESIA, 29 Sep 2015 - 1 Oct 2015.	21 Mar 2015 - 1 Oct 2015
16.	Conference	2015 World Symposium on Mechatronics Engineering & Applied Physics (WSMEAP 2015), Sousse, TUNISIA, 11-13 Jun 2015.	22 Mar 2015 - 13 Jun 2015
17.	Conference	Game Physics and Mechanics International Conference 2015 (GAMEPEC 2015), Langkawi, Kedah, MALAYSIA, 25-27 Aug 2015.	5 Apr 2015 - 27 Aug 2015
18.	Conference	2015 International Conference on Mechanics & Applied Physics (ICMAPH 2015), Rome, ITALY, 5-7 Nov 2015.	7 Apr 2015 - 7 Nov 2015
19.	Conference	2015 Advancement on Mechanical and Manufacturing Engineering Technology (ADMMET 2015), Bandung, INDONESIA, 24-26 Nov 2015.	8 Apr 2015 - 26 Nov 2015
20.	Conference	2015 International Symposium on Science and Mathematics (ISySM 2015), Bandung, INDONESIA, 24-26 Nov 2015.	6 May 2015 - 26 Nov 2015
21.	Conference	The 4th International Conference on Information and Communication Technology (ICoICT 2016), The Papandayan Hotel, Bandung, INDONESIA, 25-27 May 2016.	29 Jan 2016 - 27 May 2016
22.	Conference	Taylor's University Sdn. Bhd.	11 Feb 2016 - 31 Mar 2016
23.	Conference	International Conference on Cancer Diagnostic and Medical Treatment Approaches (ICCDMTA 2016), Rome, ITALY, 21-22 Apr 2016.	20 Feb 2016 - 22 Apr 2016
24.	Conference	2016 IEEE 6th International Conference on Power and Energy (PECON 2016), Melaka, MALAYSIA, 28-29 Nov 2016.	7 Mar 2016 - 30 Nov 2016
25.	Conference	2016 Education in Science, Technology and Social Science World Conference (EDUSTS 2016), Krabi, THAILAND, 20-22 Sep 2016.	14 Mar 2016 - 22 Sep 2016
26.	Conference	2016 Progress in Applied Mathematics in Science and Engineering (PIAMSE 2016), Krabi, THAILAND, 20-22 Sep 2016.	14 Mar 2016 - 22 Sep 2016
27.	Conference	2016 Advancement Research on Circuit and Systems International Conference (ARONCAS 2016), University of Hradec Kralove, CZECH REPUBLIC, 20-22 Sep 2016.	26 Mar 2016 - 22 Sep 2016
28.	Conference	2016 International Symposium on Social Sciences, Arts and Humanities (SYSSARM 2016), Krabi, THAILAND, 20-22 Sep 2016.	29 Apr 2016 - 22 Sep 2016
29.	Conference	The International Conference on Electrical & Electronic Technology (ICEETech 2016), UPM, Serdang, MALAYSIA, 22-26 Aug 2016.	30 Apr 2016 - 26 Aug 2016
30.	Conference	2017 2nd International Symposium on Sciences and Mathematics (ISySM 2017), Krabi, THAILAND, 24-26 Oct 2017.	31 Jul 2016 - 26 Oct 2017
31.	Conference	2016 International Conference in Environmental and Civil Engineering Technology (ENVICET 2016), Penang, MALAYSIA, 4-6 Oct 2016.	30 Aug 2016 - 6 Oct 2016
32.	Conference	2017 Advanced Research on Applied Mathematics in Science and Engineering (ARAMSE 2017), Kota Kinabalu, Sabah, MALAYSIA, 7-9 Feb 2017.	6 Oct 2016 - 9 Feb 2017
33.	Conference	2017 2nd Game Physics and Mechanics International Conference (GAMEPEC 2017), Kota Kinabalu, Sabah, MALAYSIA, 7-9 Feb 2017.	6 Oct 2016 - 9 Feb 2017
34.	Conference	2017 International Conference on Control Theory and Its Application (CNTIA 2017), Langkawi, Kedah, MALAYSIA, 14-16 Feb 2017.	8 Oct 2016 - 16 Feb 2017

35.	Conference	2017 International Symposium on Social Sciences, Arts and Humanities (SYSSARM 2017), Ghuangzhou, CHINA, 28 Feb - 1 Mar 2017.	1 Nov 2016 - 1 Mar 2017
36.	Conference	2017 Applied Mathematics in Science and Engineering International Conference (APPEMSE 2017), Phuket, THAILAND, 10-12 Oct 2017.	20 Dec 2016 - 12 Oct 2017
37.	Conference	International Conference on Composite Materials & Renewable Energy Applications (ICCMREA 2017), Istanbul, TURKEY 2-4 Apr 2017.	25 Dec 2016 - 4 April 2017
38.	Conference	2017 3rd Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronic Engineering Technology International Conference (AR4MET 2017), Melaka, MALAYSIA, 7-9 Nov 2017.	10 Jan 2017 - 9 Nov 2017
39.	Conference	2018 MyHVnet Colloquium, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA, 8 Feb 2018.	12 Jan 2017 - 8 Feb 2018
40.	Conference	2017 IEEE Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics (Prime Asia 2017), Kuala Lumpur, MALAYSIA, 31 Oct 2017 – 2 Nov 2017.	2 May 2017 – 2 Nov 2017
41.	Conference	2017 Asia Pacific Microwave Conference (APMC 2017), Kuala Lumpur, MALAYSIA, 13-16 Nov 2017.	26 Jun 2017 - 16 Nov 2017
42.	Conference	2017 IEEE Student Conference on Research and Development (SCORed 2017), Putrajaya, MALAYSIA, 13-14 Dec 2017.	15 Sep 2017 - 14 Dec 2017
43.	Conference	2018 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC 2018), Kota Kinabalu, Sabah, MALAYSIA, 7-10 Oct 2018.	9 Feb 2018 - 7 Oct 2018
44.	Conference	2018 International Research Conference on Engineering and Science (IRCES 2018), Johor Bahru, Johor, MALAYSIA, 11-12 Aug 2018.	14 Feb 2018 - 12 Aug 2018
45.	Conference	International Conference on Computational Materials Science and Thermodynamic Systems (CMST 2019), Hughes Hall, University of Cambridge, UNITED KINGDOM, 21-22 Aug 2019.	8 Apr 2018 – 22 Aug 2019
46.	Conference	2018 5th International Conference on Communication and Computer Engineering (ICOCOE 2018), Melaka, MALAYSIA, 17-19 July 2018.	1 Jul 2009 - 7 Oct 2009

Consultation Services

No.	Designation	Name of the Committee / Event	Level / Amount	Duration
1.	Consultant / Trainer for "Grounding System"	High Voltage Training for Universiti Pertahanan Nasional Malaysia, at Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA, 13-14 April 2015.	National RM 38,836.80	13-14 Apr 2015
2.	Mentor for "Resistivity Meter Circuits"	PERMATA Top STEM Talent Mentoring Programme, at Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA, 18-22 Dec 2017.	National RM 300	18-22 Dec 2017
3.	Consultant / Trainer for "Grounding System"	Site Grounding System Installation and Monitoring for SMK Sijangkang Jaya, Banting, Selangor, at Universiti Putra	National	1 Jan 2018 - 31 Dec 2018

Sabbatical & Research Attachments

No.	Title of the Project	Organization	Duration
1.	Modelling of Chemical and Natural Enhancement Materials for Grounding Purposes	George Green Institute for Electromagnetics Research (GGIEMR), The University of Nottingham, University Park, Nottingham NG7 2RD, United Kingdom.	1 Sep 2012 - 31 May 2013 9 months

List of Viva Chair for Post Graduate Students

No.	Institution/ Matrix No. / Start Date	Name	Program [#]	Title of the Project	Viva Date
1.	UPM / GS 29336 / 2013	Usman Hamisu	MSc (T)	Suppression of Total Harmonic Distortion Using single Phase Shunt Active Power Filter with Fuzzy Logic Controller	14 Oct 2013
2.	UPM / GS 34615 / 2014	Mohammad Reza Maghami	MSc (T)	The Effect of Dust on the Performance of Photovoltaic Arrays in Tropical Conditions	18 Feb 2015
3.	UPM / GS 39100 / 2015	Nur Aqilah Mohamad	MSc (T)	An Examination on the Ageing Performance of Palm Oil and Coconut Oil with Consideration on the Presence of Insulation Paper	29 Jan 2016
4.	UPM / GS 31381 / 2015	Mohd Izhwan Muhamad	MSc (T)	Hybrid Renewable Energy System Based on Biomass and Solar Resources in Tropical Climate Condition	8 Apr 2016
5.	UPM / GS 37932 / 2015	Tanaselan Ramalu	MSc (T)	Photovoltaic Based Single-Ended Primary-Inductor Converter with Dual-Fuzzy Logic Control Based Maximum Power Point Tracking for Dual-Load Operation	27 May 2016
6.	UPM / GS 33662 / 2015	Zahid Rasool	MSc (T)	Smart Monitoring and Controlling for Frequency and Voltage Deviation by MATLAB GUI	29 Jun 2016
7.	UPM / GS 40808 / 2016	Sabah Hasan Alwan	MSc (T)	Harsh Environment Impact on the Thermal Performance for Underground Power Cables of Low Voltage in Hot Countries	17 Jan 2017
8.	UPM / GS 32088 / 2017	Ahmed Hassan Mohammed	PhD	Reinforcement Based Autonomous Mobile Robot Navigation in Unknown Dynamic Environments	30 Oct 2017

List of Internal Examiner for Post Graduate Students

No.	Institution/ Matrix No. / Start Date	Name	Program#	Title of the Project	Viva Date
1.	UPM / GS 20559 / 2010	Yaaseen Rafeeu	MSc (T)	Factors of Maximizing Solar Fraction under Wet Climate Environment	31 May 2010
				Effect of Solar Geometry on Solar Irradiation and Temperature of Solar Concentrations	31 Jan 2011 (Reviva)
2.	UPM / GS 22637 / 2010	Maryam Mirzaei	MSc (T)	Fault Location Determination in Unbalanced Radial Distribution Networks using Generalised Regression Neural Network (GRNN)	21 Feb 2011
3.	UPM / GS 20895 / 2011	Mojgan Hojabri	PhD	Available Transfer Capability Calculation for Planning System by Krylov Algebraic Method	4 May 2011
4.	UPM / GS 22705 / 2011	Ahmed Naufal A. Al- Masri	PhD	Application of Adaptive Artificial Neural Network for Power System Security Assessment Including Control Action	24 Feb 2012
5.	UPM / GS 22204 / 2012	Ehsan Moazami	MSc (T)	Multiobjective Service Restoration in Distribution Networks using Genetic Algorithm	21 Jun 2012
				Multiobjective Service Restoration in Distribution Networks using Genetic Algorithm	29 Apr 2013 (Reviva)
6.	UPM / GS 30477 / 2014	Siow Chun Lim	PhD	Characterization of Bentonite for Developing Ground Resistance Improvement Material	21 Apr 2014
7.	UPM / GS 31792 / 2014	Rebaz J. Ahmed	MSc (T)	Distribution of Transient Overvoltage in Wind Turbine Systems Under Direct Lightning Strikes	17 Jun 2014
8.	UPM / GS 31864 / 2014	Seyedeh Narjes Fallah	MSc (T)	Concerns of Minimum Separation between Lightning Protection System and Non-Integrate Able Metallic Structures	11 Jul 2014
9.	UPM / GS 36582 / 2014	Aliyu Sabo	MSc (T)	Simulation Analysis of Dual Digital Controllers and its Real Time DSP Based Implementation for Single Phase Voltage Source Inverter Active Power Filter	22 Jul 2014
10.	UPM / GS 31000 / 2014	Mohammad Tolou Askari Sedehe Esfahani	PhD	Dynamic Investment Modeling in the Restructured Power Market with the Presence of Wind Resources	2 Oct 2014
11.	UPM / GS 30863 / 2013	Muhammad Noh Hamzah	MSc (T)	Distinct Characteristics of Lightning Electric Fields Generated in Malaysia	30 Jun 2015

12.	UPM / GS 39193 / 2015	Thien Yee Von	MSc (T)	Evaluation on the Lightning Impulse Breakdown Performances of Palm Oil and Coconut Oil Under Non- Uniform Field	28 Jan 2016
13.	UPM / GS 41455 / 2016	Muhammad Syahmi Abd Rahman	MSc (T)	Experimental and Simulation Works in Determining the Electrical Performance of Polymer-Type Insulator under Different Service and Lightning Voltage Condition	11 Nov 2016
14.	UPM/ GS 41527 / 2016	Nor Izzati Ahmad	MSc (T)	Electrical Performance of Monocrystalline and Polycrystalline Photovoltaic Panels under Lightning Impulse Voltage Condition	2 Dec 2016
15.	UPM/ GS 36080 / 2016	Sabo Mahmoud Lurwan	PhD	Evaluation of High Penetration of Large-Scale Grid- Connected Photovoltaic Power Plants in Peninsular Malaysia	2 Feb 2017
16.	UPM / GS 34304 / 2016	Syahrin Nizam Md Arshad @ Hashim	PhD	Lightning Characterization using Automated System Based on Measured Electric Fields	5 May 2017
17.	UPM / GS 37714 / 2016	Hoon Yap	PhD	Multilevel Inverter-Based Shunt Active Power Filter with Fuzzy-Based Dwell Time Allocation, Inverted Error Deviation and Simplified Synchronous Reference Frame Algorithms	20 Jun 2017
18.	UPM / GS 35164 / 2016	Salih Gwami Mohammed Hamad	PhD	Transient Issues Due To Capacitor Banks in LV Systems and Response of Surge Protective Devices	21 Jun 2017
19.	UPM / GS 34849 / 2016	Salah Eldeen Gasim Mohamed Hassan	PhD	Design and Modelling of Power Transistor Assisted Sen Transformers for Transmission Grid Power Flow Control	27 Jul 2017
20.	UPM/ GS 37846 / 2016	Norhidayu Rameli	PhD	Lightning Induced Voltage on a Distribution Line due to Lightning Strike to A Nearby Tall Structure	31 Jul 2017
21.	UPM / GS 32392 / 2015	Amizah Md. Ariffen	PhD	Numerical Analysis on the Influence of Bent Down Conductor on Lightning Protection System Performance	24 Aug 2017
22.	UPM / GS 37114 / 2016	Iryani Mohamed Rawi	PhD	Improved Lightning Performance of 500kV Transmission Lines in Tropical Country Using Externally Gapped Line Arresters	26 Oct 2017
23.	UPM/ GS 38045 / 2016	Akmalina Azmi	MSc (T)	Modification of Weight Value Identification in Transformer Health Index Assessment Model	27 Oct 2017
24.	UPM / GS 36214 /	Siti Salhaillea Sinan	MSc (T)	Evaluation on The Influence of Metallic and Non-Metallic	12 Jan 2018

	2015			Particles to the AC Dielectric Performance of RBDPO Olein	
25.	UPM / GS 37886 / 2017	Riyadh Z. Sabry	PhD	Potential Distribution in Soil due to a Lightning Strike to Nearby Grounding System and Its Effects on Buried Oil Pipelines	30 May 2018

List of External Examiner for Post Graduate Students

No.	Institution* / Matrix No. / Start Date	Name	Program#	Title of the Project	Viva Date
1.	UNITEN / SE 20783 / 2012	Pravin Devaraju	MEng B	Study on the Technical Impacts of 6 MW Photovoltaic Plant Interconnection to 11 kV PAJAM Grid Network	18 May 2012
2.	UNITEN / SE 20838 / 2012	Ravi Lakshmanan	MEng B	Building Integrated Alternative Energy Source, With Energy Efficiency Analysis	18 May 2012
3.	UNITEN / SE 20986 / 2012	Mohd Rizal Patman	MEng B	Impacts of Grid Connected PV System on Low Voltage Network	18 May 2012
4.	UNITEN / SE 21098 / 2012	Karthikeyan Mohan	MEng B	Investigation of Voltage Phenomena Due to Interconnection of PV Farms	18 May 2012

List of Internal Examiner for Bachelor of Engineering Final Year Project Students

No.	Matrix No.	Name	Title of the Project	Duration	Status
1.	122674	Lim Yee Tiong	Improvement of Positioning Sensor Less Linear DC Motor	Jul & Dec 2007/2008	Graduated in 2008
2.	122675	Ku Hong Leong	Generation of Triggering Signals for Multilevel Converter	Jul & Dec 2007/2008	Graduated in 2008
3.	123558	Ang Kok Ping	The Development of Linear Oscillatory Actuator	Jul & Dec 2007/2008	Graduated in 2008
4.	124824	Soh Siang Long	Design Signal Processing Drive System for Linear Displacement Sensor	Jul & Dec 2007/2008	Graduated in 2008
5.	125349	Ahmad Azran Muallap	Designing Controller for Successive Approximation Analogue-to-Digital	Jul & Dec 2007/2008	Graduated in 2008
6.	125757	Yew Chiew May	Simulation of Multipulse Static Synchronous Compensator (STATCOM)	Jul & Dec 2007/2008	Graduated in 2008
7.	126187	Mohd Syafiq Azian	Comparison of Slot Permanent Magnet Generator and Slot-Less Permanent Magnet Generator	Jul & Dec 2007/2008	Graduated in 2008
8.	127022	Mohd Khairul Hizan Abu Bakar	Automatic Fish Feeder System	Jul & Dec 2007/2008	Graduated in 2008

9.	127117	Yu Seng Chiang	Effect of Rotor on Synchronous	Jul & Dec 2007/2008	Graduated in 2008
10.	128864	Wallter Joe Peter	Evaluation of Lightning Performance of 33kV Tanjung Batu-Rompin Distribution Line	Jul & Dec 2008/2009	Graduated in 2009
11.	129136	Loo Qian Ying	Effects of Meander Coil Shape to the Characteristic of Linear Displacement Sensor by using Pattern Guide	Jul & Dec 2008/2009	Graduated in 2009
12.	130287	Tee Ting Leong	Design of Magnetic Levitation Guide using Coil Induced Field	Jul & Dec 2008/2009	Graduated in 2009
13.	130680	Chong Kok Lim	Design of Reconfigurable FFT Processor using Genetic Algorithm	Jul & Dec 2008/2009	Graduated in 2009
14.	130850	Sia Chee Yap	Design of Double Stator Type Permanent Magnet Generator	Jul & Dec 2008/2009	Graduated in 2009
15.	133159	Mohamad Abdul Rahman Muzmar	Prediction of Lightning Injury on Human Body Via Transient Modeling and Analysis-based Simulation	Jul & Dec 2008/2009	Graduated in 2009
16.	133309	Muhammad Akmal Abdul Malek	Single Phase and Three Phase DC-AC Inverter using Microcontroller Based	Jul & Dec 2008/2009	Graduated in 2009
17.	135109	Farah Asyikin Abd Rahman	A Comparative Analysis on Different Lightning Parameters in Estimating Lightning Induced Overvoltage	Jul & Dec 2009/2010	Graduated in 2010
18.	135696	Mohamad Suhairy Saidin	Simulation And Construction of Flying Capacitor Multilevel Inverter	Jul & Dec 2009/2010	Graduated in 2010
19.	136694	Maznah Kamaruddin	Development of Payload System For Unmanned Aerial Vehicle (UAV)	Jul & Dec 2009/2010	Graduated in 2010
20.	137773	Saravana Kumar Arputhasamy	Small Scale Wind Power Lighting System	Jul & Dec 2009/2010	Graduated in 2010
21.	138296	Lim Cheng Syen	Characterization of Lightning Parameters in Tropic Area Based on Local Lightning Detection System	Jul & Dec 2009/2010	Graduated in 2010
22.	140066	Dominic Kong Say Seong	High Temperature Superconducting Material for Transformer	Jul & Dec 2009/2010	Graduated in 2010
23.	140545	Mohd Sharian Suhaimi	Lightning Effect on Underground Cable	Jul & Dec 2010/2011	Graduated in 2011
24.	142866	Puvanaraj Pariyadan	Enhancement of Unmanned Aerial Vehicle (UAV) Power Train Control System	Jul & Dec 2010/2011	Graduated in 2011
25.	143349	Siow Chun Lim	Design and Construction of Portable Personal	Jul & Dec 2010/2011	Graduated in 2011

Lightning Protection Device					
26.	143504	Choo Siang Yee	Effectiveness of Filter and Component Coordination in Surge Protective Device Development	Jul & Dec 2010/2011	Graduated in 2011
27.	146094	Mohd Fitri Ahmad Tarmizi	Design and Construction of Tesla Coil	Sep & Feb 2011/2012	Graduated in 2012
28.	146332	Muhammad Nadzwan Abd Manaf	Single Phase Active Harmonic Compensator	Sep & Feb 2011/2012	Graduated in 2012
29.	148027	Tay Wei Kiat	The Development of a Portable Automated Milk Filling System for UPM Farm using PLC	Sep & Feb 2011/2012	Graduated in 2012
30.	158572	Look Eng Nee	Design And Development Of Building Management System	Sep & Feb 2013/2014	Graduated in 2014
31.	158938	Yip Wai Loon	Transmission System Laboratory Model (TSLM)	Sep & Feb 2013/2014	Graduated in 2014
32.	162065	Jeffnee Aziz	Variable Frequency and Magnitude Three Phase Matrix Converter	Sep & Feb 2014/2015	Graduated in 2015
33.	163378	Wan Fariz Azri W. Md Yusof	Design and Development of 7-Level Neutral Point Clamped Multilevel Inverter	Sep & Feb 2014/2015	Graduated in 2015
34.	163575	Murni Shazlin Mat Salleh	Thermal Effects and Side Flashing Possibilities of a Structure with Semi-Conducting Plaster Layer	Sep & Feb 2014/2015	Graduated in 2015
35.	164371	Zainurfatih Zainol	Wireless Photovoltaic Monitoring System	Sep & Feb 2014/2015	Graduated in 2015
36.	165210	Norhana Baharom	Analysis of Bus Differential Relay Using Rough Set Based Data Mining	Sep & Feb 2014/2015	Graduated in 2015
37.	165237	Nur Azyan Zakaria	Development of Lab VIEW Based Electrical Design Tool	Sep & Feb 2014/2015	Graduated in 2015
38.	169271	Faris Izzat Ismil	Multimode Double Stator Machine : Motor – Generator	Sep & Feb 2015/2016	Graduated in 2016
39.	171004	Mohamad Shafiq Mohdir	Lightning Surge on Grid-Type Photovoltaic System Modelling	Sep & Feb 2015/2016	Graduated in 2016
40.	174203	Syed Khairil Imran Syed Kharuddin	Design and Development of Electric Scooter LED Lighting System Using Intel Edison Board	Sep & Feb 2016/2017	Graduated in 2017
41.	174773	Muhd Nur Ikqwan Nordin	Power Loss Minimization of PV System due to PV Modules Mismatch	Sep & Feb 2016/2017	Graduated in 2017
42.	176672	Mohamed Ashraf Akbar Ali	Surface Deterioration Of Glass Fiber Reinforced Polymer Due To Surface Flashover	Sep & Feb 2017/2018	Graduated in 2018

43.	179614	Teh Dick Chun	Transformer Asset Management	Sep & Feb 2017/2018	Graduated in 2018
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Student Supervisions

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Aliyu Danjuma Usman <i>h-index : 3</i> <i>11 documents</i>	Effects of Radio Frequency Electromagnetic Fields of GSM Frequency Bands and Wi-Fi Technologies on Mice	Graduated in 2011 (8 Sep 2011)
2.	Buba Sani Dahiru <i>h-index : 2</i> <i>8 documents</i>	Study of Transferred Earth Potentials in Distribution Substations	Graduated in 2018+ (in absentia)
3.	Fuad Abdullah Yahya Hamamah <i>h-index :</i> <i>1 document</i>	Design of a High Power Microwave Generator-Antenna System to Tackle the Intentional Electromagnetic Interference Threats and Issues	On going

PhD (Co-Supervisor)

No.	Name	Title	Status
4.	Masoud Aminian	Detection of Paper Degradation of Power Transformer by IR Spectroscopy	Graduated in 2014 (9 Oct 2014)
5.	Mahdi Izadi	Improved Algorithm for Evaluation of Return Stroke Current along Lightning Channel in the Time Domain using Electromagnetic Fields Values	Graduated in 2012 (13 Dec 2012)
6.	Zawati Mohd Nawi	Improving Overhead Quadruple Circuit Transmission Line Lightning Performance	On going

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Mohammed Hassan Izzaldeen Jawad	Network Reconfiguration and Control for Loss Reduction using Genetic Algorithm	Graduated in 2010 (10 Jun 2010)
2.	Buba Sani Dahiru <i>h-index : 2</i> <i>8 documents</i>	Reduction of Earth Resistance by Application of Chemical and Natural Materials	Graduated in 2012 (9 Aug 2012)
3.	Zahraa Abdulkareem Mohammed <i>h-index :</i> <i>1 document</i>	Optimal Location and Size Estimation of Distributed Generators by Employing Grouping Particle Swarm Optimization and Grouping Genetic Algorithm	Graduated in 2018 (8 Mar 2018)
4.	Lai Wai Luen <i>h-index :</i> <i>1 document</i>	A Study on Comparing the Performance of Bentonite, Kenaf and Zeolite to Reduce Earth Resistance	Thesis Writing-Up

MS with thesis (Co-Supervisor)

No.	Name	Title	Status
5.	Junainah Sardi	Simulation and Analysis of Lightning Backflashover for the 132kV Kuala Krai-Gua Musang Transmission Line using PSCAD	Graduated in 2009 (11 Sep 2009)
6.	Mahdi Izadi	Evaluation of Lightning Induced Voltage on Overhead MV Lines due to Nearby Lightning	Graduated in 2010 (13 May 2010)
7.	Mohammad Tolou Askari Sedehi Esfahani	Dynamic Thermal Model Approach to Estimate Loading of Mineral Oil Immersed Power Transformer	Graduated in 2010 (12 Aug 2010)
8.	Zawati Mohd Nawi	Backflashover Rate of Underbuilt 33 kV Distribution Overhead Line under Lightning Condition	Graduated in 2013 (11 Jul 2013)
9.	Amizah Ariffin	Development of Class 2 and Class 3 Surge Protection Devices for Low Voltage Systems	Graduated in 2011 (8 Dec 2011)

BSc (Main Supervisor)

No.	Name	Title of the Final Year Project	Status
1.	Khairul Ariffin Mohd Sharim	A Study to the Effect of Various Burial Depths of an SLHGC to the Transient Responses	Jul & Dec 2007/2008
2.	Mohd Shahir Mohamad Hashim	Effects of Homogenous Soil Characteristics to the Transient Responses of a Single Long Horizontal Ground Conductor	Jul & Dec 2007/2008
3.	Mohamad Aziman Drahman	Study on Various Excitation Effects to the Transient Responses of a Single Long Horizontal Ground Conductor	Jul & Dec 2007/2008
4.	Chong Say Tat	Effective Length of a Single Long Horizontal Ground Conductor Buried in Homogeneous Soil	Jul & Dec 2007/2008
5.	Ganesh Rao Dhraunna	Automatic Temperature Controller System for Classroom	Jul & Dec 2008/2009
6.	Mohd Asyraf Zainal Abidin	Wireless Internet EMF Radiation Determination in Faculty of Engineering and 10th College, UPM	Jul & Dec 2008/2009
7.	Mohd Arifuddin Ahmad	Investigation of Power Quality Mitigation Technique on Harmonics	Jul & Dec 2008/2009
8.	Mohammad Syafiq Abdul Rahman	Lightning Protection Study of an Earth Conductor Using Chemical Enhancement Materials	Jul & Dec 2009/2010
9.	Hajar Yusop	First Nuclear Power Plant in Malaysia: A Reality or a Myth?	Jul & Dec 2009/2010
10.	Su Tze Hung	Electromagnetic Field Radiation Assessment in the Range of Bluetooth Usages	Jul & Dec 2009/2010
11.	Tan Kok Heng	Performance of Sodium Chloride, Bentonite and Conductive Cement as Grounding Enhancement Materials	Jul & Dec 2010/2011
12.	Lee Chuin Siang	Grounding Installation Study using Ground Conductors for Different pH Levels of the Soil	Jul & Dec 2010/2011
13.	Ong Khuan Shiong	Soil Treatment for Grounding System Purposes using Sodium Thiosulphate	Jul & Dec 2010/2011
14.	Sim Wan Loong	The Influence of Electrical Frequency on Soil Conductivity and Relative Permittivity	Sep & Feb 2011/2012
15.	Nurul Haziqah Hamzah	A Study on Bentonite and Kenaf Properties for Grounding Purposes	Sep & Feb 2014/2015

16.	Lai Wai Luen	A Study on Sulfate Chemical Earth Rod Grounding Systems	Sep & Feb 2014/2015
17.	Danny Pui Len En	A Study on Chloride Chemical Earth Rod Grounding Systems	Sep & Feb 2014/2015
18.	Umair Zaniil	Portable Resistivity Meter : A Prototype	Sep & Feb 2015/2016
19.	Nursuhaila Marudin	Performance of Bentonite and Zeolite Mixtures as Grounding Enhancement Materials	Sep & Feb 2016/2017
20.	Muhammad Helmi Mohamad Roslan	Performance of Kenaf and Bentonite Mixtures as Grounding Enhancement Materials	Sep & Feb 2016/2017
21.	Voon Yong Jian	Performance of Bentonite, Fly Ash and Wood Ash Mixtures as Grounding Enhancement Materials	Sep & Feb 2017/2018
22.	Muhammad Syahmi Azhari	Portable Natural Enhancement Material Resistivity Meter : A Prototype	Sep & Feb 2017/2018
23.	Prasanth Krishnan	Performance of NEM Mixtures I as Grounding Enhancement Materials	Sep & Feb 2018/2019
24.	Abdul Hafiz Abdul Rahman	Performance of NEM Mixtures II as Grounding Enhancement Materials	Sep & Feb 2018/2019

BSc (Co-Supervisor)

No.	Name	Title of the Final Year Project	Status
1.	Sebastian Saban Edward (Faculty of Medicine and Health Sciences, UPM)	Relationship Between Handphone EMF and Cognitive Function Among Students in Faculty of Medicine and Health Sciences, UPM	Graduated in 2011

Notes

- [¤] ESF = E-Science Fund, Ministry of Science, Technology and Innovation, MALAYSIA;
 FRGS = Fundamental Research Grant Scheme, Ministry of Higher Education, MALAYSIA;
 GP-IPB = Grant Putra-IPB
 RUGS = Research University Grant Scheme, Research Management Centre, UPM, MALAYSIA
- ^{*} Project leader
- [#] PhD = Doctor of Philosophy Degree;
 MSc (T) = Master of Science (Thesis) Degree;
 MEng B = Master of Electrical Engineering Degree (Structure B)
- ⁺ UPM = Universiti Putra Malaysia, MALAYSIA;
 UniMAP = Universiti Malaysia Perlis, MALAYSIA;
 UNITEN = Universiti Tenaga Nasional, MALAYSIA