CURRICULUM VITAE

Noramalina Binti Abdullah
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Personal Profile

Date of birth/ Age: 15 December 1979/ 40 years old
Gender: Female
Nationality: Malaysian
Marital status: Married
Current position: Senior Lecturer
Research interest: Power System, Neuro-fuzzy System
Medical Imaging

Education

Year	Level and Institutions	Achievements
May 1999 – May 2002	Bachelor's Degree (Quality Control and Instrumentation), University Science Malaysia (USM)	Final year project title: Implementation of Quality Circle Management in Firm Sector
November 2007 – November 2009	Master's Degree of Electrical Engineering (Microelectronic and Automation Control), University Technology Malaysia (UTM)	Thesis title: FPGA Implementation on MRI Brain Classification Using Support Vector Machinehttp://eprints.utm.my/12307/
Nov 2011 – December 2015	PhD in Electrical Engineering - Chulalongkorn University, Bangkok, Thailand	Thesis title: Fault Detection and Identification With Adaptive Neuro-Fuzzy Inference System http://cuir.car.chula.ac.th/handle/123456789/49855

Working Experience

Year	Position and Institutions	Scope of works
July 2018 – recent	Senior Lecturer (USM)	Semester 1 (2018/19) Teaching: EEU 104- Electrical Technology EUM 113- Engineering Calculus Semester 2 (2018/ 19) Teaching: EEU 104- Electrical Technology EEE 125- Basic Circuit Laboratory Final Year Project: i. The causes and Effects of The Harmonic in Power Suystem Transmission Line ii. Automatic Circuit Breaker (ACB) for Low Voltage Substation Distribution iii. Web-based Photovoltaic Monitoring System iv. Uninterruptible Power Supply
November 2002 – June 2018	Senior Research Officer, University Science Malaysia (USM)	1. Assist the laboratory session pertinent to: - Basic Circuit - Mechatronics Design - Mechatronics - Analogue Electronics - Introduction of Field Programming Gate Array (FPGA) 2. Handle the tutorial class pertinent to: - Electronic Device - Digital Signal and Systems - Circuit Theory - Electrical Technology - Manufacturing and Management Technology - Power System 3. Conduct respective research as principal investigator and co-researcher
March2001 – May 2001	Internship/ Industrial training at B Braun Medical Industries Sdn. Bhd., Penang	Quality assurance, Department of Research and Development

Publications

Year	Title
2018	1. Noramalina Abdullah, Channarong Banmongkol, Naebboon Hooncharеong, Hidaka Kunihiko, *Fault Identification using Combined Adaptive Neuro-Fuzzy Inference System and Gustafson–Kessel Algorithm*, Journal of Engineering Research, 2018; March issue, IF 0.4 2. Paper presented at 2017 IEEE 15th Student Conference on Research and Development (SCOReD) has been posted to the IEEE Xplore digital library. http://ieeexplore.ieee.org/document/8305365/ 3. Amalina Abdullah, *The Performance of Clustering Technique and Aretificial Intelligence in Power System Fault Investigation*, International Conference on Electrical and Electronics Engineering (ICEEE), Kuala Lumpur, 18-19th December 2018
2017	1. Amalina Abdullah, Channarong Banmongkol, Naebboon Hooncharеon and Kunihiko Hidaka, *A Study on the Gustafson-Kessel Clustering Algorithm in Power System Fault Identification*, Journal of Electrical Engineering and Technology, 2017; 12(5): 1798-1804, IF 0.679 2. Amalina Abdullah et al, *Design and Development of D33 Mode Piezoelectric Acoustic Transducer Array using PVDF for Underwater Application*, 2017 IEEE International Conference on Control System, Computing and Engineering, 24-26 December 2017, Penang. 3. Amalina Abdullah, *Fault Identification Using A New Scheme of Hybrid ANFIS, IEEE Student Conference on Research and Development*, 13-14 December 2017, Putrajaya. 4. Amalina Abdullah et al, *D33 Mode Based Piezoelectric Micromachined Ultrasonic Transducers*, IEEE Student Conference on Research and Development, 13-14 December 2017, Putrajaya.
2016	1. Amalina Abdullah, Channarong Banmongkol, Naebboon Hooncharеon and Kunihiko Hidaka, *Implementation of Adaptive Neuro Fuzzy Inference System in Fault Location Estimation*, 9th International Conference on Robotic, Vision, Signal Processing and Power Applications, February 2016, Penang 2. Lect. Notes Electrical Eng, Vol 398, Haidi Ibrahim et al: (9th International Conference on Robotic, Vision, Signal Processing and Power Applications, 978-981-10-1719-3, 339721_1_En (80)
2015	1. Completed and submitted Phd Thesis
2014	1. Amalina Abdullah, Channarong Banmongkol and Naebboon Hooncharеon, 2014, *Improvement of Fault Identification and Localization Using Gustafson-Kessel Algorithm In Adaptive Neuro-Fuzzy Inference System*, Australian Journal of Basic and Applied Sciences, 8(5) Special 2014, Pages: 455-461, ISSN:1991-8178 AENSI Publisher, SCOPUS indexed (selected from paper submitted to ICBST'14) http://www.ajbasweb.com/old/ajbas/2014/Special%202/455-461.pdf 2. *Improvement of Fault Identification and Localization Using Gustafson-Kessel Algorithm In AdaptiveNeuro-Fuzzy Inference System*, *International Conference of Business, Science and Technology* (ICBST 2014), 25-26 April 2014, Hatyai, Thailand

2013	1. Amalina Abdullah, Channarong Banmongkol , *A Study of Traveling Wave for Fault Detection And Localization in Transmission Line*, AUN SEED-Net Regional Conference, 4-5February 2013, Bangkok, Thailand 2. Amalina Abdullah, Channarong Banmongkol, *Fault Detection and Fault Localization in Transmission Line*, Postgraduate Conference of Electrical Engineering, 8 February 2013, Bangkok, Thailand
2011	1. Noramalina Abdullah, *Image Classification of Brain MRI Using Support Vector Machine* (LabView Software) for case study booklet of National Instrument 2011, ftp://ftp.ni.com/pub/branches/asean/111021-gsdaa_casestudy_booklet.pdf 2. Amalina Abdullah et al, *Moving Vehicle Segmentation in a Dynamic Background Using Self-Adaptive Kalman Background Method*, *2011* IEEE 7th International Colloquium *on* Signal Processing and its Applications (*CSPA 2011*), 4-6 March2011, Penang 3. Amalina Abdullah et al *MRI Brain Classification Using Support Vector Machine*, International Conference on Modeling, Simulation and Applied Optimization (ICMSAO-2011), 19-21 April 2011, Kuala Lumpur 4. Amalina Abdullah et al *Improvement Moving Vehicle Detection Using RGB Removal Shadow Segmentation*, *2011* IEEE International Conference on Control System, Computing and Engineering, 25- 27 November *2011,* Penang 5. Amalina Abdullah et al, *Improvement of MRI Brain Classification Using Principal Component Analysis*, *2011* IEEE International Conference on Control System, Computing and Engineering, 25-27 November 2011, Penang 6. Amalina Abdullah et al, *Image Classification Of Brain MRI Using Support Vector Machine*, *2011* IEEE Conference on Imaging Systems and Techniques (IST 2011), Penang
2010	1. Amalina Abdullah et al , *An Overview Of MRI Brain Classification Using FPGA Implementation*, 2010 IEEE Symposium on Industrial Electronics & Applications (ISIEA 2010), 3rd - 6th October 2010, Penang

Research Grant

1. As Principal Investigator for USM Short Term Grant; AUTOMATED SYSTEM FOR BRAIN MRI CLASSIFICATION USING SUPPORT VECTOR MACHINE (304/PELECT/60310003), January 2010-January 2012, worth RM 32,000.
2. As Principal Investigator for USM Short Term Grant; ESTIMATION OF POWER FAULT LOCATION USING ARTIFICIAL INTELLIGENCE (304/PELECT/60313049), October 2016 – March 2019, worth RM 33,239.
3. As Co-Researcher Fundamental Research Grant Scheme(FRGS); INVESTIGATION ON ENERGY HARVESTING FROM RAINDROP ENERGY, 01/08/2011-31/01/2014, worth RM117,000.00
4. As Co-Researcher for CREST grant; HIGHLY DYNAMIC AUTOMATED GUIDED VEHICLE (AGV) NAVIGATION SYSTEM USING LIGHT DETECTION AND RANGING (LIDAR) PLATFORM IN CONFINED PRODUCTION PLANT, Feb 2019 – Feb 2022, worth RM 148 200.00

Recognitions

1. https://scholar.google.com/citations?user=8yTHbucAAAAJ&hl=en
2. https://orcid.org/0000-0002-9562-1728
3. http://www.researcherid.com/rid/C-7978-2019
4. Graduate Technologist – GT18030012 (Electrical & Electronics Technology)
5. Award winning at International Engineering and Sciences Innovation Exhibition (2018)
   Gold Medal: Intelligent Self-Defence Device
   Silver Medal: Web-based Photovoltaic Monitoring System
   Bronze Medal: Uninterruptible Power Supply