

RESUME

M V Chilukuri, BE, ME, PhD, SMIEEE PES/IAS/SP/PELS

Member CIGRE INDIA

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45 Velachery Main Road, Pallikarnai, Chennai 600100, Tamilnadu, India

VISION

To build Centre of Excellence on Electric Power Research and conduct research and development towards Sustainable Power and Energy.

MISSION

- Establish Smart Grid Research Centre for Distributed Generation
- Develop Energy Management innovative solutions for Smart Home, Smart Building, Smart Community, and Smart Cities using Green ICT
- Establish Data Centre Energy Efficiency Research Centre for sustainable development.

EXPERIENCE

Twenty Six Years experience in research, training and consultancy as an academician at National and International Institutes in Electrical Power Engineering at Central Power Research Institute (CPRI-UHVRL), Jawaharlal Nehru Technological University (JNTU), Multimedia University (MMU) and University of Nottingham Malaysia Campus (UNMC). Senior Member of IEEE Power Engineering and Industrial Application Society since 2004 with Research Expertise in Power Quality, Condition Monitoring, Distributed Generation, Energy Efficiency, Data Centres, Smart Grid and Green ICT. Member of MNC-CIGRE and MNC-CIRED with strong connection in Electrical Industry. Promoting quality in academic teaching, research, training and consultancy for continuous professional development in the industry as Senior Member of IEEE PES for two decades.

EDUCATION

- **PhD**, Electrical Engineering, Multimedia University, Cyberjaya, Malaysia, 2011.
- **Thesis**: "Multiresolution Time-Frequency Analysis for Detection and Classification of Power Quality Disturbances".
- **MEngg**, Power Systems and Automation, Andhra University, Visakhapatnam, India, 1996.
- **Thesis**: "Corona Detection and Quantification Using Acoustic Emission Technique".
- **BEngg**, Electrical & Electronics Engineering, Andhra University, Visakhapatnam, 1993.

EXPERIENCE

- **2016 – Associate Professor – Power System & Smart Grid, SELECT, VIT, Vellore, India**
- 2015 – 2016 Power and Energy Consultant
- 2013 – 2015, Assistant Professor, Department of Electrical and Electronic Engineering, University of Nottingham Malaysia Campus, Malaysia.
- 2012 – 2013, Green ICT and Smart Grid Consultant
- 2001–2012, Lecturer, Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia.

- 1997 – 2001, Assistant Professor, Gayathri Vidya Parishad College of Engineering, Jawaharlal Nehru Technological University, Hyderabad, India.
- 1998 – 2001, External Examiner: Jawaharlal Nehru Technological University, India.
- 1996 – 1997, Research Assistant, Ultra High Voltage Laboratories, Central Power Research Institute, Hyderabad, India.

SUBMITTED PROPOSALS

- Title: **Smart Microgrid for Transactive Energy Implementation in a Smart Community**
- International Collaborator: Technical University of Denmark and Texas Tech University
- Indian Collaborators: Danfoss India Pvt Ltd and Green Building Certification India Ltd
- Project Objective: To develop Smart Microgrid (100 kW) Pilot Model for R & D
- Funding Agency: Department of Science and Technology, Mission Innovation Smart Grid
- Budget: Rs 5.55 Crore
- Project Description: This proposal is to design, develop and deploy a Smart Microgrid for Transactive Energy Implementation in a Smart Community which can be a test bed for developing and testing Smart Grid Technologies in the long run. The proposal objective is to design and develop an advanced intelligent Microgrid controller for Transactive Energy (Demand Response & Market Mechanism) for a Smart Microgrid.

FUNDED PROJECTS COMPLETED

- Title: Solar PV Plant DUTY Transformer Failure Analysis, 2022-23 (**Completed**)
 - International Copper Association India (ICA)
 - Project Funding: Rs 10,62,000.00
 - **Role: Principal Consultant**
- Title: Energy Management and Demand Response in a Smart Home/Microgrid Prototype Using Wireless Sensor Network for Smart Grid: Towards the Smart City Vision in collaboration with Al Akhawayn University (AUI) and NRJ International, 2015 – 2018.
 - Role: Co-investigator (International Collaborator)
 - Funding: IRESEN
- Title: Malaysian Data Centre Energy Efficiency Benchmarking Study & Symposium
 - Project Funding: RM 150,000
 - Sponsor: Multimedia Development Corporation Malaysia (MDeC)
 - Role: Principal Investigator/Consultant.
 - Status: Successfully Completed. www.mdceec.org

RESEARCH PROJECTS COMPLETED

- Title: Design and Development of Single-Phase Voltage Sag Mitigator
 - Funding: RM120,000 (MOSTI)
 - Role: Co-investigator
- Power Quality Studies on Variable Speed Drives
 - Funding: RM 160,000 (Telekom Malaysia)
 - Role: Principal Investigator
- Real-Time Monitoring & Analysis of PQ Disturbances in Electric Distribution Systems
 - Funding: RM 25,000 (Telekom Malaysia)
 - Role: Principal Investigator
- Integrated Condition Monitoring and Diagnostic System for Substation Equipment, RM 350,000 (Proposal)

- Performance of revenue meters under the power quality disturbances and energy saving device, RM 100,000 (Proposal)
- Integrated Power Quality and Energy Monitoring System for Sustainable Energy at University, RM 125,000 (Proposal)
- Green ICT Metrics and Measurements, RM 50,000 (Proposal)
- Intelligent Snicko Analysis for an Automatic Decision System, RM 150,000 (Proposal)
- Integrated Renewable Energy Generation and Storage Systems, RM 450,000 (Proposal)
- Smart Metering and Demand Response for Sustainable Energy Management, RM 100,000 (Proposal)

PhD SUPERVISION

- Condition Monitoring of Electrical Equipment Using Time-Frequency Analysis and ML – Ms Kavita Sao

HONORS & CERTIFICATES

1. Senior Member, IEEE Power Engineering Society, April 2004.
2. Founder and Counsellor, UNMC IEEE Student Branch, 2013.
3. Founder and Counselor, MMU IEEE Student Branch, 2001-2012.
4. Certificate of Appreciation, IEEE Signal Processing society, 2004.
5. Certificate of Appreciation, IEEEExtreme8.0, 2014
6. Founder & Secretary, Centre for Electric Energy and Automation, MMU, 2003-2007.
7. Computer Network & Internet Programming, ELNET-3L Course, IIT Kharagpur, 1999.
8. Sustainable Energy and Environment, MyREN eLearning course, Feb – April 2011, UNESCO, Jakarta, Indonesia.
9. Green IT for ASIA Training, Association for overseas training scholarship, 6-15 Oct 2011, Tokyo, Japan.
10. Certified Green Computing User Specialist (CGCUS), Green Computing Initiative, 2012.

RESEARCH & CONSULTANCY EXPERTISE (10)

1. Power Quality Analysis
2. Condition Monitoring Diagnostics
3. Partial Discharge Studies
4. Smart Metering and Demand Side Management
5. Smart Grid and Distributed Generation
6. Time-Frequency Signal Processing
7. Data Centre Energy Efficiency
8. Green ICT Metrics and Measurements.
9. IoT & Machine Learning
10. Blockchain Applications

PROFESSIONAL ACTIVITIES (14)

1. Member, BIS Working Group ETD01 and ETD20, 2023
2. Reviewer – IEEE Transactions on Industrial Applications
3. Reviewer – IEEE Transactions on Power Delivery
4. Reviewer – IEEE Transactions on Signal Processing
5. Reviewer – Elsevier Journal of Signal Processing
6. Reviewer – MMU M²USIC Conference, IEEE PECON03, PECON05, PECON06, ICSIPA09
7. Member - IEEE PES & IAS Task Force on P1564 - Voltage Sag Indices

8. Member – UIE WG on Voltage Sags Immunity, 2010 – 2012
9. Member – MyREN Technical Committee, 2009 – 2011
10. Chair – MTSFB Green ICT WG Metrics and Measurements, 2010-12.
11. Vice Chair – MTSFB Green ICT WG Promotion and Awareness, 2012-15
12. Research Chair, MyREN Green Technology WG, 2010-2012.
13. Secretary - IEEE International Conference on Signal and Image Processing Applications, Kuala Lumpur (ICSIPA2009), 2009.
14. Co-Chair - IEEE International Conference on Signal and Image Processing Applications (ICSIPA2011), Kuala Lumpur, 2011.

SOCIETY MEMBERSHIP (22)

1. Senior Member IEEE (41342004, 24 years),
2. Member IEEE Power Engineering Society (2021-24, 23 years)
3. IEEE Industrial Applications Society (2005-24, 20 years)
4. IEEE Power Electronics Society (2014-24, 10 years),
5. IEEE Dielectric and Insulation Society (2020 -24, 4 years)
6. IEEE Signal Processing Society, (2004-15, 12 years)
7. IEEE Instrumentation and Measurement Society Membership, (2008-10, 3 years)
8. IEEE Computational Intelligence Society Membership, (2015)
9. IEEE Professional Communication (2015)
10. IEEE Green ICT Society(2015)
11. IEEE Aerospace Society(2015)
12. Member, IEEE Communications Society, (2005, 2008, 2011, 2014)
13. Member, IEEE Sustainable ICT Community, (2015-24, 10 years)
14. Member, IEEE Smart Grid Community, (2021-24, 3 years)
15. Member, IEEE Smart Cities Community (2022-24, 3 years)
16. Member IET (39095074), UK, 2001 – 2012.
17. Member, National Federation of Electrical Engineers, 2023
18. Member CIGRE (120221162), INDIA, 2023 - 2024
19. Member CIGRE (120030561) – Malaysian National Main Committee, 2005-08.
20. Member CIRED – Malaysian National Committee on CIRED, 2008-2011.
21. Secretary, Centre for Electric Energy and Automation, MMU, 2003 – 2006.
22. Secretary, IEEE Signal Processing Society, Malaysia Chapter, 2006 – 2008.

PEER REVIEWED JOURNALS (IEEE Transactions) (28)

1. Development of Partial Discharge and Prediction of Short Term Development Trend of Insulators in GIS
2. Grid Synchronization of a PV System with Grid Disturbances using Unscented Kalman Filtering
3. Classification of power quality disturbances using neural networks and features obtained in time and frequency domains
4. Consumer Satisfaction Based Distribution Load and Price Management System for EV Charging
5. Online Condition Monitoring of MV Switchgear by D-dot Sensor and Wavelet-based De-noising to Predict Arc-faults
6. Recognition of Partial Discharge in TEV Measurements, Using Wavelet Entropy and Neural Network.
7. Investigation of the Evaluation of the Severity and Verification of the Sensitivity of Partial Discharge Detection Using UHF Method in GIS

8. Current and Voltage Harmonic Content of Artificially Generated Electrical Arc in Out-Door Experiment
9. Developing and Implementing $d-q$ -axis Wavelet Packet Transform-Based Differential Protection of Power Transformers
10. Effective Voltage Flicker Calculation Based on Multiresolution S-Transform
11. Application of Artificial Bee Colony Algorithm to Fault Section Estimation of Power Systems
12. Power Transformer Differential Protection Based on Clarke's Transform and Fuzzy Systems
13. A Remote Supervision Fault Diagnosis Meter for Photovoltaic Power Generation Systems
14. Analysis of Electromagnetic Transient and Adaptability of Second Harmonic Restraint Based Differential Protection of UHV Power Transformer
15. A Novel Negative Selection Algorithm applied in a Fault Detection Benchmark
16. A Novel Artificial Immune System for Fault Behavior Detection
17. An Investigation on the Pros and Cons of Grounding Utility Trucks Working under Energized Overhead Distribution Lines
18. Of the Utility Fault Currents at Service Entrances of Industrial Facilities
19. Butterworth Filter Implementation of the Wavelet Packet Transform for Power Transformer Protection
20. Sensitivity of UHF coupler and loop electrode with UHF method and their comparison for detecting partial discharge in GIS
21. Induced Voltage Calculation in Electric Traction Systems - Part 1: Simplified Method and Screening Factors
22. Analytical Assessment of the Effects of Voltage Sags on Induction Motor Dynamic Responses
23. Characterization of Short-Duration Voltage Variation by Means of Wavelet Transform and Intelligent Computational Techniques
24. A DSP Based Control Algorithm for Series Active Filter for Optimized Compensation under Non-Sinusoidal and Unbalanced Voltage Conditions
25. Covariance Analysis of Voltage Waveform Signature for Power Quality Event Classification
26. A Study of DC Flashover Process for Polluted Insulator Strings at High Altitude Analytical Assessment of the Effects of Voltage Sags on Induction Motor Dynamic Responses
27. Power quality disturbance signals classification using optimal adaptive wavelet packet method
28. Noise Analyses of Power System Frequency Estimated from Angle Difference of Discrete Fourier Transform Coefficient

RESEARCH PUBLICATIONS (39)

1. M V Chilukuri, K Palanisamy, N Rajasekhar and Manas Kundu, Investigation on Inverter Duty Transformer Failures at Grid Connected Solar Photovoltaic Plants: Challenges and Opportunities, CIGRE 2023 Sendai Colloquium, 3 – 7 October 2023, Japan. (Accepted)
2. Kavita Sao and M V Chilukuri, JTFA of Time-Varying Signals for Condition Monitoring, IEEE ICASIC, 28-29 November 2022, Malaysia.
3. M V Chilukuri, and Prerna Sarkar, Time-Frequency Analysis Tool for Intelligent Condition Monitoring and Diagnostics, IEEE ICONAT2022, 21-22 Jan 2022, Goa, India.
4. Kavita Sao and M V Chilukuri, Joint Time-Frequency Analysis of Partial Discharge AE Signals for Pattern Recognition, IEEE ICONAT2022, 21-22 Jan 2022, Goa, India.
5. M V Chilukuri, Prerna Sarkar, and D R S Raghuraman, Time-Frequency Analysis Pattern Recognition Tool for Predictive Maintenance of Critical Structures, Journal of Indian Structural Engineering Association, Vol 11, Issue 3, July – September 2021, pp106 -115.

6. Purna Sarkar and M V Chilukuri, Health Monitoring of Structures Using Time-Frequency Analysis of Acoustic Emission Signatures, International Conference on Futuristic Technologies, 21 – 24 Jan 2021.
7. Purna Sarkar and M V Chilukuri, Time-Frequency Analysis Tool for Condition Monitoring and Diagnostics, ICCM 2021, 21 – 22 Jan 2021. (Presentation only)
8. Kavita Sao and M V Chilukuri, Time-Frequency Analysis of Partial Discharge Signals, ICCM 2021, 21 – 22 Jan 2021. (Presentation only)
9. Purna Sarkar and M V Chilukuri, Study of Subsynchronous Oscillations Using Time-Frequency Analysis in Wind Energy Systems, IEEE ECCE Asia, Singapore, 24 – 27 May 2021.
10. M V Chilukuri and Purna Sarkar, India Needs Modern Power Quality System, Energy Manager Magazine (SEEM), October – December 2019, p31 -42.
11. M V Chilukuri, and Tan Sih Sin, Pattern Recognition Tool for Detection and Classification of Power System Transients, IEEE TENCON 2019, 17 – 20 October 2019, Kochi, India.
12. M V Chilukuri, Benchmarking Energy Efficiency In Tropical Data Centres, International Conference on Green Energy for Sustainable Development, ICUE2018, 24-26 October 2018, Phuket, Thailand.
13. M V Chilukuri, Data Centre Energy Efficiency Benchmarking – Metrics, Measurements and Roadmap, International Journal of Buildings and Energy Review , Elsevier(Review).
14. Jiaqi Li and M V Chilukuri, Power Supply Quality Analysis Using S-transform and SVM Classifier, Journal of Power and Energy Engineering, 2014, 2, 438-447.
15. B. Manouchehrinia and M. V. Chilukuri, Time Summation Frequency Method for Detection and Classification of Power Quality Disturbances using S-transform, International Conference on Renewable Energies and Power Quality (ICREPO'14) Cordoba (Spain), 8th - 10th April, 2014.
16. Dash, P.K., and Chilukuri, M.V. (2004). Hybrid S-Transform and Kalman Filtering Approach for Detection and Measurement of Short Duration Disturbances in Power Networks, IEEE Transactions on Instrumentation and Measurement, 53(2), 588 - 596.
17. Chilukuri, M.V., and Dash, P.K., (2004). Multiresolution S-transform-based fuzzy recognition system for power quality events, IEEE Transactions on Power Delivery, 19(1), 323 - 330.
18. Chilukuri, M.V., and Dash, P.K., (2005). "Closure on Multiresolution S-transform-based fuzzy recognition system for power quality events", IEEE Transactions on Power Delivery, 20(1), 540.
19. Chilukuri, M.V (2006). "Discussion on The analysis of ultrasonic signals by partial discharge and noise from the transformer", IEEE Transactions on Power Delivery, 21(3).
20. Chilukuri, M. V., Basu, K. P., and Ramar, K., Effects of Voltage Sags on Domestic & Office Appliances. Electric Power Quality and Utilization Magazine, Vol. 11, Issue 2, 2009.
21. Chilukuri, M. V., Smart Grid for Power Quality, Reliability, Security and Sustainability, Asia Pacific regional Conference & Exhibition on Energy Efficiency for Sustainable Development, 18 – 21 October 2010, APACEEE2010, Berjaya Times Square Hotel, Kuala Lumpur.
22. Green Technology: Challenges and Opportunities, MYREN International Seminar at PJ Hilton, 27 – 28th July 2011, PJ Hilton, Kuala Lumpur, Malaysia
23. Chilukuri, M. V., Lee Ming Yong., and Phang Yoke Yin., (2009, 8 – 11 June), "Voltage Sag Sensitivity of Domestic Appliances And Office Equipment", The 20th International Conference and Exhibition on Electricity Distribution: CIRED 2009, Prague.
24. Chilukuri, M. V., Phang Yoke Yin. (2009, May 5 - 9), "Remote Power Quality Monitoring and Analysis System Using Lab-View Software", IEEE International Conference on Instrumentation and Measurement Technology, Singapore.

25. Chilukuri, M. V., S Ting, (2009, May 5 - 9), "Novel Pattern Recognition Technique for an Intelligent Cricket Decision Making System", IEEE International Conference on Instrumentation and Measurement Technology, Singapore.
26. Chilukuri, M. V., (2009, March 18 – 19), "Electric ARC Flash Hazards: An Overview", IDC Forum on The Power Cables and Switchgear, Kuala Lumpur.
27. Chilukuri, M. V., Gobbi, R., and Ramar, K. (2007, Nov 28 – 29), Study of Power Quality Problems Associated with Drives. Asia Pacific Regional Conference & Exhibition on Power Quality, CIRED 2007, Sunway Pyramid, Malaysia.
28. Chilukuri, M. V., Phang Yoke Yin. (2007, May 30 - 31), Real-Time Monitoring and Analysis System for Power Quality, Proceedings of Emergency Power Supplies Conference, Kuala Lumpur, Malaysia.
29. Chilukuri, M. V., Lee M Y, and Phang Yoke Yin. (2007, May 30 - 31), Effects of Voltage Sags on Domestic and Office Appliances, Proceedings of Emergency Power Supplies Conference, Kuala Lumpur, Malaysia.
30. Chilukuri, M. V., Ng, M. C., and Ng, K. E. (2006, July 17 - 19), Multiresolution S-Transform Analysis of Somatosensory Evoked Potentials For Intraoperative Monitoring , Proceedings of 3rd International Conference on Advances in Medical, Signal and Information Processing (MEDSIP 2006), Glasgow, UK.
31. Chilukuri, M. V., Ng, M. C., and Ng, K. E. (2006, April 23 - 26), "Time-Frequency Analysis of Spinal Somatosensory Evoked Potentials For Intraoperative Monitoring", Proceedings of National Conference on Soft Computing Techniques (NCSC 2006), Bhubaneshwar, India.
32. Chilukuri, M.V., Dash, P.K., and Basu, K.P. (2004, Nov 21-24). Time-Frequency based Pattern Recognition Technique for Detection and Classification of Power Quality Disturbances, IEEE International Conference on Analog and Digital Techniques in Electrical Engineering (IEEE TENCON2004), Chiang Mai, THAILAND.
33. Chilukuri, M.V., Dash, P.K., and Khincha, H.P. (2003, October 15-17). Fault Analysis of FACTS using Phase-Corrected Wavelet Transform and Pattern Recognition Approach, International Conference on Convergent Technologies for Asia-Pacific Region, IEEE TENCON, Bangalore, INDIA.
34. Dash, P.K., Chun, I.L.W., and Chilukuri, M.V. (2003, October 15-17). Power quality data mining using soft computing and wavelet transform, IEEE International Conference on Convergent Technologies for Asia-Pacific Region (TENCON 2003), Bangalore, INDIA.
35. Chilukuri, M.V. and Dash, P.K. (2003, December 15 - 16). Soft Computing Tools for Protection of Compensated Network, Power Engineering Conference (PECon2003), Kuala Lumpur, MALAYSIA.
36. Chilukuri, M.V. and Dash, P.K. (2002, August 5 - 9). A Novel Method for Characterization of Short Duration Voltage Variations in Power Networks, Regional Symposium & Exhibition on Electricity Distribution (CIRED2002), Kuala Lumpur, MALAYSIA.
37. Dash, P.K., Chilukuri, M.V., and Panigrahi, B.K. (2002, April 16-18) Power Quality Analysis and Classification Using Generalized Phase Corrected Wavelet Transform, IEE International Conference on Power Electronics, Machines & Drives (PEMD2002), University of BATH, UK.
38. Uma Rao, K., Mahendra, CH.V., Chakravarthy, N.S., Srinivas, D.A., Srinivas, I.N., (2001, November 6- 7). Power Quality Assessment Using Artificial Neural Networks, International Conference on Power Quality - Assessment of Impact, New Delhi, INDIA.
39. Yellaiah, A., Aradhya, R.S.S., Channakeshava, Mahendra, CH.V. (1997, October). An Attempt for Quantification and Location of Corona Emission in Transmission Line Insulators by Acoustic Method, Proceedings of the 2nd International R & D Conference, Vadodara, INDIA.

INVITED SEMINARS/TUTORIALS (32)

1. M. V. Chilukuri, Power Quality in Smart Grid, IEEE Smart Grid Society, **IEEE Smart Grid Resource Centre**, 5 Feb 2021. [Power Quality in Smart Grid/Microgrid - IEEE Smart Grid](#)

2. M. V. Chilukuri, *SSO/SSR Detection, Modeling and Analysis in a Smart Grid*, IEEE Smart Grid Society, **IEEE Smart Grid Resource Centre**, 15 July 2021. [SSO/SSR Detection, Modeling and Analysis in a Smart Grid - IEEE Smart Grid](#)
3. "Green ICT and Data Centres for Digital Transformation" – Invited Talk, IEEE Computer Society, ACM and Computer Society of India, 5 December 2020.
4. "Smart Grid Framework for Electricity Loss Reduction – Challenges and Opportunities", Electricity Loss Reduction & Theft Management Summit, 2 – 5 July 2018, Singapore.
5. "Smart Microgrid For Transactive Energy Implementation in a Smart Community to Reduce T & D Loss", Electricity Loss Reduction & Theft Management Summit, 2 – 5 July 2018, Singapore.
6. "Electric Arc Flash Hazard Analysis", AICTE Sponsored FDP on Analysis of Power System Protection & Automation – Current Scenario, KCG College of Technology, 27 Nov – 9 Dec 2017.
7. "Smart Cities Framework", Innovative Cities India Summit, Bangalore, 18 – 17th March 2017.
8. ICOIN2011 Tutorial: "Smart Grid Communication Standards and Smart Metering", 27 – 29 JAN 2011, Sunway Pyramid Hotel, Kuala Lumpur, Malaysia.
9. CIGRE workshop on "Smart Grid Initiatives in the Asia-Pacific Region", 5 – 6th Feb 2010, PJ Hilton, Kuala Lumpur, Malaysia.
10. MDec IP Matching workshop at P J Hilton, 31st March 2011, P J Hilton, Kuala Lumpur, Malaysia.
11. MYREN2 Soft launch, 29 Apr 2010, Hotel Nikko, Kuala Lumpur, Malaysia.
12. MYREN International Seminar at PJ Hilton, 27 – 28th July 2011, PJ Hilton, Kuala Lumpur, Malaysia.
13. Smart grid project R & D collaboration meeting at UNITEN, 9th July 2011, Kuala Lumpur, Malaysia.
14. Green Technology at MYREN Roadshow, USM, 15th July 2010, Penang, Malaysia.
15. Smart grid project R & D collaboration meeting at UKM, 10th August 2010, Kuala Lumpur, Malaysia.
16. TM R & D Technical Seminar on Power Line Communication, TM Innovation Centre, 4th August 2010, Cyberjaya, Malaysia.
17. Forum for Public Comments on the final draft Malaysian Standards: MS 61000-5-1 & MS 61000-5-2, 30th September 2010, Kuala Lumpur.
18. ASEAN Conference on Energy and Sustainability at PICC, 4 – 5th October 2011, Putrajaya, Malaysia.
19. IET Green Energy in Building Technology at SIME DARBY Convention Centre, 12th October 2010, Kuala Lumpur, Malaysia.
20. Asia Pacific Regional Conference and Exhibition on Energy Efficiency, 19 – 21st October 2011, Berjaya Times Square, Kuala Lumpur, Malaysia.
21. EU-Malaysia Chamber of Commerce & Industry, Green ICT meeting, 4th December 2010, Double Tree by Hilton, Kuala Lumpur, Malaysia.
22. Green Technology Conference and Exhibition at KLCC, 14 – 16th October 2010, KL, Malaysia.
23. Green Technology Seminar at MYREN Roadshow, 16th December 2010, UMK, Kelantan, Malaysia.
24. IEEE Signal Processing Society Workshop on "Time-Frequency Signal Processing Applications using Matlab", 28th March 2009, Kuala Lumpur, Malaysia.
25. Power Quality Issues, Analysis and Diagnostics, Telekom R & D Malaysia, 21st May 2007, KL, Malaysia.
26. Intelligent Power Quality Analysis, IEEE TENCON 2004, 21-24 November 2004, Chiang Mai, Thailand.
27. Time-Frequency Analysis of Power Quality Disturbances, IEEE PES Talk, UKM, 10 September 2004, Kuala Lumpur, Malaysia.
28. Power Quality and Monitoring, Institute of Engineers Malaysia & Schneider Electric Malaysia, 6 Dec 2003, Kuala Lumpur, Malaysia.
29. Multiresolution S-Transform based Fuzzy Recognition System for Detection of Power Quality Events, 3 September 2003, Centre for Electric Energy and Automation, MMU, Cyberjaya, Malaysia.

30. Time-Frequency Analysis of Power Quality Disturbances, 3 Dec 2002, Silicon Institute of Technology, Bhubaneswar, India.
31. Power Quality Analysis and Classification Using Generalized Phase Corrected Wavelet Transform, 3 May 2002, Centre for Smart Systems and Innovations, Faculty of Engineering, Multimedia University, Cyberjaya.
32. Detection and Quantification of Corona on Transmission Line Components using Acoustic Emission Technique, Central Power Research Institute, Ultra High Voltage Laboratories, Hyderabad, India.

ACADEMIC TEACHING

VIT University (BTech)

- HVDC Transmission System (EEE6006) – Winter 2016 -17 (MTech)
- Basic Electrical and Electronics Engineering (EEE1001) Fall 2016-17, 2016-24
- Network Theory (EEE108) – Summer 2016, Tri 2017
- Power Quality (EEE4010) – Winter 2017
- High Voltage Engineering – Summer 2018
- Power Quality (EEE4010) – Winter 2018

University of Nottingham Malaysia (ME/BE)

- Advanced Power Conversion (H64APC, MEngg) - SPRING
- Power Electronics Design (H63PED) - AUTUMN
- Power Networks (H63PNW) – SPRING & AUTUMN
- Renewable Energy Technology and Control (H63REN) – Spring 2015
- FACTS and Distributed Generation (H63DGR) - Spring 2015
- High Voltage Engineering (H64HVE, MEngg) – Autumn 2015

Multimedia University (BE)

- Circuits and Signals
- Introduction to Electrical Machines
- Power Transmission & Distribution
- Switchgear and Protection
- Power System Analysis
- High Voltage Engineering
- Transient Stability of Power Systems

G V P COLLEGE OF ENGINEERING, JNTU (BE)

- Circuit Theory – I, Circuit Theory – II
- Electrical Science, Electrical Machines
- Power Systems – I, Power Systems – II
- High Voltage Engineering
- Electrical Machines Lab, Electrical Circuits Lab

INDUSTRY TRAINING

1. Power Quality and Condition Monitoring
2. Power System Harmonics

3. Power System Protection
4. Disturbance Analysis of Power Systems
5. Switchgear and Power Cables
6. Electric Arc Flash Analysis
7. Green Technology and Smart Grid
8. Time-Frequency Signal Processing
9. Data Centre Energy Efficiency Metrics, Measurements, and Benchmarking
10. Smart Meters, Smart Homes, Smart Community and Smart City

ADMINISTRATIVE EXPERIENCE

- 1. Advisor, VIT Standards Club**
- 2. Member, PAT (Placement and Training)**
3. Member, Malaysia Data Centre Alliance Special Interest Group
4. Proctor, IEEEExtreme 7.0 and IEEEExtreme 8.0
5. Industrial Liaison Officer (2013 – 2015), UNMC
6. IEEE UNMC Student Branch Founder & Counselor (2013 – 2015)
7. MyREN, Green Technology Research WG Chairperson (2010 – 2012)
8. MTSFB Green ICT WG Member, GICT M & M research group leader (2010 – 2012)
9. IEEE ICSIPA2011, Conference Co-chair, 16 – 18 November 2011, Kuala Lumpur
10. IEEE ICSIPA2009, Conference Secretary, 18 – 19 November 2009, Kuala Lumpur
11. Internal Reviewer – Research Proposal & Grants, MMU
12. Member – Postgraduate Research Examination Panel (Electrical), Faculty of Engineering, MMU
13. Coordinator, Industry Career Talk, MMU, Cyberjaya (2005 – 2010)
14. Secretary, Signal Processing Society, IEEE Malaysia Section (2007-08)
15. Member, Student Affairs and Activities Committee (2002 – 2010)
16. Member, Industrial Training Committee (2002 – 2011)
17. Mentor, IEEE Student Branch, MMU, Cyberjaya (2002 – 2011)
18. Member – National Committee, CIGRE Malaysian National Committee (2005 - 2007)
19. Member, Asia Pacific Regional Power Conference & Exhibition on Power Quality, Sunway Pyramid, 27 - 29 Nov 2007, Kuala Lumpur, Malaysia
20. Member, CIGRE Study Committee C6 Colloquium on "Electricity for Rural Socio-Economic Development", Langkawi 1 - 5 May 2007, Kuala Lumpur, Malaysia
21. Founder & Secretary, Centre for Electric Energy and Automation, MMU (2003 – 2006)
22. Secretary, Power Group of CSSI, MMU (2001 – 2003)
23. Member, National Power & Energy Conference (PECON2003)
24. Member & Advisor, Red Crescent Society, MMU, Cyberjaya (2001 – Till Date)
25. Member & Advisor, Taekwondo Club, MMU, Cyberjaya (2001 – Till Date)
26. Member & Advisor, Cricket Club, MMU, Cyberjaya (2002 – Til date)
27. Training & Placement Officer, (1999 – 2001), GVPCE
28. Coordinator, Exam Invigilation Duties, (1999 – 2001), GVPCE

CV SUMMARY

Education – BEngg, MEgg, PhD
Experience – 26 Years (CPRI/JNTU/MMU/UNMC/VIT)
Research Areas – 10
Society Membership – 22
Administrative – 28 activities
Teaching – 24 modules
Research Projects - 10
Publication - 39
Invited Talk - 32
Training – 10 courses
Consultancy – 2 (National & International)
National Committees - 3
Professional Activities – 14
Peer Review – 28
Social Activities - 3
Honors & Certificates – 10

Recommendations

Assistant Professor

The University of Nottingham Malaysia Campus



Tze Meng Tan

Head of Data Cloud Dept at Malaysia Digital Economy Corporation

“ I've known Dr Mahendra for a few years now. First met him at a seminar on Green ICT. His talk on the metrics for energy efficiency in data centres was what I was interested in. We eventually engaged him for a project to conduct some energy efficiency assessments for data centres in Malaysia and we have been happy with the great work done. Could have been better if we... **more** ”

July 11, 2016, Tze Meng was a consultant or contractor to Mahendra at The University of Nottingham Malaysia Campus

Lecturer & Researcher

Multimedia University



Khairul Mazwan Ibrahim

Senior Executive at Talent Department, Multimedia Development Corporation (MDeC)

“ Mr Mahendra is very knowledgeable and dedicated, always striving for the best in his work and research in the areas of Distributed Generation, Power Quality & Grounding, Condition Monitoring and Diagnostics, Time-Frequency Signal Processing, Soft Computing and Intelligent Systems & Corona and Partial Discharges. ”

August 27, 2008, Khairul Mazwan worked with Mahendra at Multimedia University

Assistant Professor

Gayatri Vidya Parishad College of Engineering



Rama mohan Gandhi bommireddipalli

Independent Higher Education Professional

“ Mahendra chilikuri was my younger colleague in teaching and I mentored him in teaching methods, HRM and guidance supervision of UG projects. A highly dedicated teacher with enormous zeal and enthusiasm to share his talents knowledge with students and hone their skills, he was keen to increase his breadth and depth in subject over a wide range of areas in power/energy systems... **more** ”

October 3, 2012, Rama mohan Gandhi managed Mahendra at Gayatri Vidya Parishad College of Engineering