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Dr. Smilee Mathuram, Associate Professor in the Department of Electrical and Electronics is a Ph. D Degree holder in Electrical Engineering with 19 years and 5 months of teaching experience.

She is committed to teaching and throughout her career she has maintained very high standards and produced uniformly very good results. Apart from teaching, she has actively participated in all the developmental activities of the Department and Institution.

She received her B.E. Electrical and Electronics Engineering degree with a first class from Madras University, M.E. Power Systems Engineering degree with a first class from Annamalai University and Ph.D. from Anna University, Chennai.

During her Ph.D. she developed Enhancements in the Zigbee Architecture. She also developed a novel Energy Aware Load Balanced Routing Protocol for Wireless Sensor Network.

She has published over 20 research publications in refereed national and international journals and in proceedings of international conferences. She has organized 2 AICTE sponsored FDPs and many short term programs, workshops and webinars.

PUBLICATION DETAILS: INTERNATIONAL JOURNALS

- **Smilee Mathuram** & Sharmeela C “A Frame Work for Zigbee based Power Line Monitoring System” in International Journal of Embedded Systems and Computing- IJESC Journal (Vol,4 No.1 2012) Pages:29-42.
- **Smilee Mathuram** & Sharmeela C “Zigbee Based Underground Cable Monitoring System” in International Journal of Soft Computing (vol.8 N0 6 nov-dec 2013) pages 424-434.
- **Smilee Mathuram** & Sharmeela C 2016, ‘Linear Programmable Load Balanced Data-Gathering in Multisink Wireless Sensor Network’, Asian Journal of Information Technology .2016 vol 15, issue 12, pg.no 1975-1982
- **Smilee Mathuram** & Sharmeela, C 2016, ‘An Advanced Zigbee Stack For Effective Data Handling And Management’, Middle East Journal of Scientific Research, vol. 24, no.4, pp.1016-1024
- **Smilee Mathuram**, “Design of Neurofuzzy Based High Step-up Converter And Maximum Power Point Tracking by Beta Method with Hardware Implementation of Converter”, International Journal of Applied Engineering Research (IJAER), Research India Publications, ISSN 0973-4562, pp.30239-30243, Vol.10 No.40(2015).SCOPUS, EBSCOhost, GOOGLE Scholar, Journal Seek, J-Gate

- **Smilee Mathuram** , P.Chandrasekar,2017 “Transformless Photovoltaic Inverter having Bidirectional Capability” in International Journal of Pure And Applied Mathematics” vol;116, No23 2017, 275-285
- Bharathi, Priscilla , **Smilee Mathuram** 2017 “Enhanced Fault Tolerance Method for Subway Applications “ in International Journal of Mechanical Engineering and Technology (IJMET) VOL.8 ISSUE 10 OCTOBER2017 PG 547-552 – ARTICLE ID-IJMET -08-10-06
- Smilee Mathuram ,Priscilla Whitin 2018 E-harvest Solar Powered Tactical Battlefield Tracking Application Using Multisink Wireless Sensor Network in International Journal of Pure and Applied Mathematics volume 118 No 22 2018 1601-1616
- Priscilla Whitin , Smilee Mathuram Development of Virtual I2C Sensor Based for Hardware –In-The-Loop Based Testing in International Journal of Pure and Applied Mathematics volume 116 No 23 2017 245-251
- Priscilla Whitin, Smilee Mathuram USB Device Driver Development in International Journal of Pure and Applied Mathematics volume 118 No 22 2018 1587-1594
- C.Valli, Smilee Mathuram ,K Abinaya , R.Arun Kumar “VLSI implementation of OFDM Transceiver using customized IFFT /FFT Algorithms” in International Journal of Advanced Science and Technology Volume 29 no.7

NATIONAL CONFERENCE

- T.Balamika, Smilee Mathuram, D.Chandrakala”Three phase zero Voltage and Zero current Switching DC-DC converter “Proceedings of fourth National Conference on ITPED 11-12, Vellamal Engineering College
- Amrit Rajgopla, S.Divya, C.Divya, Jayadurga, Smilee Mathuram “Performance analysis of matrix converter based unified power flow controller in transmission line “Proceedings of National Conference in Emerging Technologies (NCEEE-12),Vellamal Engineering College
- **Smilee Mathuram**, C. Sharmila, Sudhakar selva raj, Vishak Jagadish Ram, Sridhar Aravamudan,“Advanced Security system for communication in smart grid”, 4th National Conference, Easwari Engineering College, 32-35 ,2014
- **Smilee Mathuram**, Dr.Mala, G.Tamil pavai, “Performance improvement of photovoltaic module using interleaved flyback converter Topologies” 4th National Conference,Easwari Engineering College, 158-163, 2014.
- **Smilee Mathuram**, S.Vijayarajan, E.vivek, V.Pradeep, R.Ganesh kumar & R.Mohan, “Power Quality improvement in Microgrid using UPQC” Communication Control and Energy Engineering, Vel Tech, 176-181, April 2014.

INTERATIONAL CONFERENCE

- “A Novel Fault Location Algorithm in Transmission Lines Using FACTS Devices”-3RD International Conference on Recent TRENDS IN Science and Technology”- GKM College of Engineering and Technology TECHOWN-6TH May 2020, Chennai.

- High Voltage Generation Using SMPS FOR Gamma Detector-International Conference ON Modern Trends in Engineering and Research”-Marthandam College of Engineering and Technology, Kuttakzhi, Marthandam, Kanyakumari District

NATIONAL JOURNALS

- C.Siva Kumar, Pradeep.K, R.Selva MuthuKumaran, Praveen.K and **Mrs. Smilee Mathuram**, “Design of unified power quality conditioner to improve the power quality problems by using renewable energy source”, Methods Enriching Power and Energy Developments , Vol 1 , Issue 2, 249-253, April 2013.
- Abigail Kearney, Andrew John Winney, N, Bhuvesh, Mamta Satheesh and **Smilee Mathuram**, “Smart Grids: Protection and Monitoring of Power System Entities”, Methods Enriching Power and Energy Developments, Vol 1 , Issue 2, 329-333, April 2013.