## DC Member-1

Name : **Dr.P.MARUTHUPANDI** 

Address (off): Asst. Professor (Sr.Gr)/Electrical Engineering,

Government College of Technology,

Coimbatore-641 013

Tamil Nadu INDIA

(Res) :40, GCT Staff quarters,

Thadagam Road, Coimbatore-641 013

TamilNadu INDIA

Email : pandi@gct.ac.in ,maruthugct@gmail.com

Contact No. : 9865824288

## **PUBLICATIONS**

## **JOURNALS:**

- MaruthuPandi.P. andDevarajan.N. (2009) "Harmonic reduction in SPWM based cascaded multilevel inverter –A soft computing approach," Association for the Advancement of Modelling & Simulation Techniques in Enterprises (AMSE) Vol.64, Issue 2, No 1-2.pp.58-77.
- 2. MaruthuPandi.P. andDevarajan.N. (2010) "Genetic algorithm based comparative analysis of power quality in cascaded multilevel inverter" International Journal of Technology and Engineering System (IJTES) Vol.1, No.2,pp.161-167. ISSN: 2320-8007 Impact Factor:1.85
- 3. MaruthuPandi.P. and Sathiskumar (2010), "Simulation And Comparison Of Different Control Schemes For The Control Of An Active Power Filter" International Journal Of Computer Applications In Engineering, Technology And Sciences (IJ-CA-ETS)ISSN: 0974-3596 April '10 Sept '10 Volume 2: Issue 2 SJIF: 4.003



- 4. MaruthuPandi.P.andDevarajan.N. (2011) "Comparative analysis of power quality issue in cascaded multilevel inverter using PWM Techniques", European Journal of Scientific Research (EJSR) Vol.60, Issue 3, pp. 458-468. ISSN:1450-216x Impact Factor:0.736
- 5. MaruthuPandi.P. andDevarajan.N. (2011) "Performance Enhancement of Embedded System Based Multilevel Inverter Using Genetic Algorithm" Journal of Electrical Engineering (JEE), Slovakia.Vol.62, No.4, pp. 190-198. ISSN:1335-3632 Impact Factor: 0.524
- 6. MaruthuPandi.P. andDevarajan.N. (2015) "Optimum control of Total Harmonic Distortion in Field Programmable Gate Array based cascaded multilevel inverter" Journal of Vibration and control (JVC). Online publication: 20<sup>th</sup> September -2013 and Vol. 21(10) No.55 pp.1999–2005; ISSN: 10775463 Impact factor:2.101
- 7. MaruthuPandi.P. Poomathi R (2015) "Performance Analysis of photo voltaic system with subpanel MPPT converter" International journal of Applied Engineering Research(IJAER) Vol.10, No.4, pp.10065-10078 ISSN: 0973-4562 Impact factor: 0.14
- 8. MaruthuPandi.P. Karthik S (2015) "'Efficient design of hall effect current transformer for the measurement and protection of power systems" International journal of Engineering Research and Technology (IJERT) TITCON-2015 Conference proceedings, pp.874-879
- 9. MaruthuPandi.P.Devarajan.NandVinishza P (2015) "An improved MPPT scheme for PV systems under unstable shaded conditions" Journal of Energy research and Environmental Management: An innovative Approach of Electrical Engineering.Vol.-, No.1, pp. 35-41.
- 10. MaruthuPandi.P.Devarajan.N and Vinishza P (2015) "Performance Comparison of Controllers for Photovoltaic Systems" International journal of Applied Engineering Research(IJAER) Vol.10, No.55, pp.836-841; ISSN: 0973-4562 Impact factor: 0.14
- 11. MaruthuPandi.P, Sebasthirani K and Balaganesan S.M.(2015) "New Control Technique for Mitigation of Harmonics in Three Phase System Using Shunt Active Power Filter" International journal of Applied Engineering Research(IJAER) Vol.10, No.88, pp.213-218; ISSN: 0973-4562 Impact factor: 0.14
- 12. MaruthuPandi.P, Suganthi R.(2015) "A Comparative Survey of Maximum Power Point Tracking Techniques for Photovoltaic System" International journal of Applied Engineering Research(IJAER) Vol.10, No.88, pp.237-242; ISSN: 0973-4562 Impact factor: 0.14
- 13. MaruthuPandi.P, Vijayalaksmi N. (2018) "Reduced ripple buck-boost converter design for solar portable applications" Journal of Graphic Technology, Vol-14 pp 1242-1251,ISSN 1748-0345.Publisher: TAGA
- 14. MaruthuPandi.P, Radhika.A. (2018) "A New Improved Three phase Trans ZSource Inverter" International Journal of Pure and Applied Mathematics (IJPAM)Volume 118 No. 18 2018, 4655-4670 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version)url: http://www.ijpam.eu

- 15. MaruthuPandi.P, Radhika.A. (2018) "Comparative Analysis of Transformer based Z Source Inverter (TZSI) and Impedance Source Inverter (ZSI)" International Journal of Pure and Applied Mathematics (IJPAM) Volume 119 No. 12 2018, 1665-1675 ISSN: 1314-3395 (on-line version) url: http://www.ijpam.eu
- 16. MaruthuPandi.P, Bagavathiy S (2018) "Sensorless cluster based neural-fuzzy control strategy for four quadrant operation of three phase BLDC motor with load variations" Cluster Computing: The Journal of Networks, Software Tools and Applications ISSN: 1386-7857 (Print) 1573-7543 (Online) DOI 10.1007/s10586-017-1639-0, pp 1-10 Volume 21, Issue 3, September 2018 Publisher: Springer. Impact factor: 1.96
- 17. MaruthuPandi.P, Vijayalaksmi N. (2018) "An optimal low power digital controller for portable solar applications" Journal of Renewable and Sustainable Energy vol10, Issue-5 053702 pp 1-10 doi: 10.1063/1.5043500
- 18. MaruthuPandi.P, Mathavapandian (2018) "Experimental Analysis in Wearable Temperature Sensor Using Advanced Encryption Standard for Energy Efficient Information Transmission in Wireless Sensor Networks" Journal:Sensor Letters, Volume 16, Number 11, November 2018, pp. 846-854(9) Publisher: American Scientific Publishers, DOI: <a href="https://doi.org/10.1166/sl.2018.4041">https://doi.org/10.1166/sl.2018.4041</a>
- 19. MaruthuPandi.P, AmuthambigaiyinSelvi (2018) "Identification and Estimation of Unstable processes" International Journal of Emerging Innovations in Science and Technology-ISSN:2348-4403, Vol.4,Issue-2 Publisher:Coumbatore: Infinite Tech Innovations
- 20. MaruthuPandi.P, DhasBensam S. (2019) "A hybrid MWOAL approach for fast and efficient maximum power point tracking in wind energy conversion systems" Journal of Renewable and Sustainable Energy, Vol11, Issue-03 3302, pp 1-15, 02 May 2019 doi.org/10.1063/1.5080784, Publisher:American Institute of Physics (AIP)
- 21. MaruthuPandi.P, Hema K (2019) "Load frequency control of micro grid with ANFIS controller" Journal of Information, Knowledge and Research in Electrical Engineering Vol 05, No.05, pp 667-672 Nov-18-Oct-19 Publisher: AES
- 22. MaruthuPandi.P, Hema K (2019) "Frequency control of distributed generators in micro grid with ANFIS controller" International research journal of Engineering and Technology, Vol 06, No 05, pp 6404-6408, May-2019
- 23. MaruthuPandi.P, Santhosh Kumar R (2019) "Design and implementation of PWM rectifier with power factor control" International research journal of Engineering and Technology, (IRJET) e-ISSN: 2395-0056 p-ISSN: 2395-0072

- 24. MaruthuPandi.P, DhasBensam S. (2019) "Compatibility of electrical generators for harvesting extended power from wind energy conversion system" journal of Measurement and Control pp 1-12 DOI: 10.1177/0020294019858183 SAGE Publications
- 25. MaruthuPandi.P, SenthilMurugan.L, "Minimization of Torque Ripple in Switched Reluctance Motor -A Review" International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST)Vol.5, Issue.4, pp 106-115, April 2019, ISSN (ONLINE):2456-5717
- 26. MaruthuPandi.P, Bagavathiy S (2018) "Fuzzy with PID based Sensorless Brushless DC Motor Control" International Journal of Engineering & Technology, 7 (4.19) (2018) 481-484 DOI: 10.14419/ijet.v7i4.19.23205
- 27. MaruthuPandi.P, Mathavapandian (2019) "FPGA implementation of highly scalable AES algorithm using modified mix column with gate replacement technique for security application in TCP/IP" Journal: Microprocessors and Microsystems, Elsevier publication ISSN: 0141-9331
- 28. MaruthuPandi.P, Mathavapandian (2019) "System Level Protection Against Side-Channel Attack Using High Performance Virtual Secure Circuit for Cryptographic Processor" Journal Name: Wireless Personal Communications, Springer publication ISSN online: 0929-6212
- 29. P. Maruthupandi ,A.Radhika(2019) "A New Improved Trans Z Source Inverter based Three Phase UPS" Indian Journal of Science and Technology, Vol 12(19), pp 1-10, DOI: 10.17485/ijst/2019/v12i19/144468, May 2019, ISSN (Print): 0974-6846 ISSN (Online): 0974-5645
- 30. P. Maruthupandi, SenthilMurugan.L (2020) Sensorless speed control of 6/4-pole switched reluctance motor with ANFIS and fuzzy-PID-based hybrid observer (Electrical Engineering, Springer-Verlag GmbH Germany, <a href="https://doi.org/10.1007/s00202-019-00915-5">https://doi.org/10.1007/s00202-019-00915-5</a>)
- 31. P. Maruthupandi, SenthilMurugan.L (2020) Realization of fault tolerant capability in a multiphase SRM drive using wavelet transform. (Microprocessors and Microsystems, Elsevier, <a href="https://doi.org/10.1016/j.micpro.2020.103104">https://doi.org/10.1016/j.micpro.2020.103104</a>)
- 32. Maruthupandi.P, Kaviya.V, (2020), Performance analysis of solar PV battery grid connected single phase transformerless inverter" International Journal of Engineering Applied Sciences and Technology, 2020 Vol. 5, Issue 4, ISSN No. 2455-2143, Pages 445-449 Published Online August 2020 in IJEAST (http://www.ijeast.com)