

### Publication in Journals:

1. 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
2. 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
3. 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.
4. 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
5. 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
6. 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
7. 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
8. 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>
9. 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>
10. 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

11. 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
12. 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: <https://doi.org/10.1166/sl.2018.4041>
13. 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
14. 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)
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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](https://doi.org/10.14419/ijet.v7i4.19.23205)
21. 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

22. 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
23. 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
24. 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, <https://doi.org/10.1007/s00202-019-00915-5>)
25. P. Maruthupandi, SenthilMurugan.L (2020) Realization of fault tolerant capability in a multiphase SRM drive using wavelet transform. (Microprocessors and Microsystems, Elsevier, <https://doi.org/10.1016/j.micpro.2020.103104>)
26. 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>)

#### **Publication in Conferences:**

1. MaruthuPandi.P. and Vinishza P(2015) "An improved MPPT scheme for PV systems under unstable shaded conditions"SecondInternational Conference on Applied Sciences , Environmental Engg and Energy Technology for sustainable Development (ASET-2015) organized by KrishiSanskriti at Jawaharlal Nehru University , New Delhi during 14<sup>th</sup>and 15<sup>th</sup>February -2015.
2. MaruthuPandi.P. andKarthik.S. (2015) "Efficient design of hall effect current transformer for the measurement and protection of power systems" International Conference on Trends in Technology for Convergence (TITCON-2015) organized by AVS Engineering College, Salem during 10<sup>th</sup> and 11<sup>th</sup> April-2015.
3. MaruthuPandi.P. andRamalingam.R. (2015) "Design and Simulation of high frequency inverter for PV system" International Conference on Trends in Technology for Convergence (TITCON-2015) organized by AVS Engineering College, Salem during 10<sup>th</sup> and 11<sup>th</sup> April-2015.
4. MaruthuPandi.P. and VinishzaP(2015) "Performance comparison of controllers for photo voltaic systems" International Conference on Advances in Applied Engineering & Technology (ICAAET-2015) organized by Syed Ammal Engineering College, Ramanathapuram during 14<sup>th</sup>to 16<sup>th</sup>May-2015.
5. MaruthuPandi.P. and Sivasubbulakshmi R(2015)," Design and simulation of three phase two stage grid connected frequency modulated LLC micro inverter using film capacitor" International Conference on Alternate Energy Technologies (ICAET-2015)

organized by Department of EEE, Government College of Technology, Coimbatore during 25<sup>th</sup> to 26<sup>th</sup> November-2015.

6. MaruthuPandi.P. and Ajay R. (2015),” Fast converging MPPT algorithm for PV panel using SAZZ converter” International Conference on Alternate Energy Technologies (ICAET-2015) organized by Department of EEE, Government College of Technology, Coimbatore during 25<sup>th</sup> to 26<sup>th</sup> November-2015.
7. MaruthuPandi.P. and Sivasubbulakshmi R (2016),” hybrid type full bridge DC-DC converter with high efficiency using PV systems” in the national conference on “Renewable Energies” held in the Department of EEE, Government College of Technology, Coimbatore on 7<sup>th</sup> April 2016
8. Maruthupandi.P. and Angel.A (2017),” Performance Analysis of DC nano grid with Renewable Energy Sources through simulation” in the ICMR sponsored IEEE international conference on “Science, Technology, Engineering and Management (ICSTEM’17) held at KIT-KalaignarKarunanidhi Institute of Technology, Coimbatore on 3<sup>rd</sup> and 4<sup>th</sup> March, 2017.
9. Maruthupandi.P. and Shaik Abdul Rahman (2017),” Performance Analysis of Hybrid converter with open loop and closed loop control” in the TEQIP II CoE-AER sponsored national conference on “Alternate Energy Technologies” (ICAET’17) held at Department of EEE, Government College of Technology, Coimbatore on 24<sup>th</sup> March 2017
10. Maruthupandi.P. and Angel.A (2017),” Performance Analysis of Hybrid Renewable Energy Sources” in the TEQIP II CoE-AER sponsored national conference on “Alternate Energy Technologies” (ICAET’17) held at Department of EEE, Government College of Technology, Coimbatore on 24<sup>th</sup> March 2017
11. Maruthupandi.P. and Chelladurai.S (2017),”Demand side Management with Load Shifting Technique in Smart Grid ” in the TEQIP II CoE-AER sponsored national conference on “Alternate Energy Technologies” (ICAET’17) held at Department of EEE, Government College of Technology, Coimbatore on 24<sup>th</sup> March 2017
12. Maruthupandi.P. and Suganthi R (2017),”PWM Technique for three phase transformer less grid connected photo voltaic Inverter” in the 8<sup>th</sup> Industrial Automation and Electromechanical Engineering Conference (IEEE-IEMECON-2017) organized by IEEE Thailand section held at Bangkok, Thailand during 16<sup>th</sup> to 18<sup>th</sup> August-2017. **(Received BEST PAPER AWARD)**
13. Maruthupandi.P. SathyaE,(2018) “ Performance analysis of PMSG based wind energy conversion system with Super capacitor” in the 4<sup>th</sup> International Conference on Electrical Energy Systems (ICEES ‘2018) held at SSN College of Engineering, Chennai during 07<sup>th</sup> to 09<sup>th</sup> Feb-2018 (Indexed in **IEEE Xplore-<https://doi.org/10.1109/ICEES.2018.8443259> )-pp 57-60**

14. Maruthupandi.P. Kaushika C (2018) “Ordinal Optimization Technique for State Estimation in Distribution System” in the International Conference on Contemporary Topics in Electrical and Electronics Engineering(ICCTEEE’ 2018) held at KarpagamCollege of Engineering, Coimbatore during 27 and 28<sup>th</sup> Feb-2018, ISSN:2456-1983 pp-643-648
15. Maruthupandi.P. SathyaE,(2018) “ Selective Harmonic Elimination in symmetrical cascaded H-Bridge multilevel inverter with Newton Raphson Algorithm” in the National Conference on Alternate Energy Technologies(NCAET-2018) held at Department of EEE,Government College of Technology, Coimbatore on 27<sup>th</sup>April 2018
16. Maruthupandi.P. Kaushika C (2018)“ Modelling and Analysis of Synchronous machine” in the National Conference on Alternate Energy Technologies(NCAET-2018) held at Department of EEE,Government College of Technology, Coimbatore on 27<sup>th</sup>April 2018
17. Maruthupandi.P. SenthilMurugan L(2019)“ Analysis of 6/4 & 10/8 pole switched Reluctance motor with compact power converter” in the National Conference on Communication, Computing and System Design (NC<sup>3</sup>SD’19) organized by the Departments of CSE,EEE and ECE,PSG Institute of Technology and Applied Research, Coimbatore on 19<sup>th</sup>March 2019
18. Maruthupandi.P. GnanarajE,(2019) “ Design and performance analysis of light weighted solar powered agriculture drone” in the National Conference on Emerging Technologies in Electrical Systems (ETES-2019) held at Department of EEE,Government College Engineering, Salem on 04<sup>th</sup>April 2019