

**Dr. P.Maruthupandi**

**List of Publications (Last 5 Years)**

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
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.N and Vinishza 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
5. **Maruthupandi.P,** Sebasthirani K and BalaganesanS.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
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
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)
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**
13. **Maruthupandi.P**, Amuthambigaiyin Selvi (2018) "Identification and Estimation of Unstable processes" **International Journal of Emerging Innovations in Science and Technology-ISSN:2348-4403**, Vol.4, Issue-2 Publisher:Coimbatore: 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.
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**, Dhas Bensam 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**, Senthil Murugan.L, “Minimization of Torque Ripple in Switched Reluctance Motor -A Review” **International Journal of Advanced Research in Basic Engineering Sciences and Technology**, 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.
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**, Senthil Murugan.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**, Senthil Murugan.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