Name : Dr R Meenakumari Designation : Professor & HoD,

Department of EEE,

Kongu Engineering College, Perundurai, Erode-638060

PUBLICATIONS – JOURNALS (32)

- 1. Sasikala R., Shanmuga priya A.T., Meenakumari R, "Grid synchronization using adaptive low pass notch filter phase locked loop", Vol 6 Issue No:20 pp 16617 16622, March 2015.
- 2. Sasikala R., Anita A., Meenakumari R, "Design and analysis of low power reduced delay double tail comparator", International Journal of Applied Engineering Research, Vol 10 Issue No:19 pp 14963 14966, March 2015.
- 3. Suresh M, Meenakumari R and Vigneshwaran S, "An SVM based Statistical image quality assessment for fake biometric detection", International Journal for Trends in Engineering and Technology, Vol 10 No:1, March 2015
- 4. Sathiskumar S Meenakumari R, and Anbarasu L,"Design and implementation of embedded based cane robot using solar power panel for visually impaired people"International Journal of Applied sciences research, Vol 11, Issue 5,pp:68-74 April 2015.
- 5. Sathishkumar S and Meenakumari R, "Design and Simulation of active single axis PV tracker fed PM brushless motor for commercial applications" International Journal of Advanced Engineering Technology,vol. 7, no. 6, pp. 193-19,March 2016
- 6. Sathishkumar S, Meenakumari R, "Senssorless Control of Four Switch Inverter for Brushless DC motor Drive and its Simulation", International Journal of Circuits and Systems,vol. 7, no.6, pp.726-734. May 2016
- 7. Suresh M, Meenakumari R (2016), "Economic Analysis of Solar PV/Wind/Diesel generator / Battery connected Integrated Renewable Energy Systems for residential applications" Springer series proceedings in Energy, Volume 03, Issue 2m, pp 345-355,April 2016
- 8. Sathishkumar S and Meenakumari R (2016), "Sensorless Control of Four Switch Inverter for Brushless DC motor Drive and its Simulation", International Journal of Circuits and Systems, vol. 7, no. 6, pp. 726-734.May 2016.
- 9. Sathishkumar S and Meenakumari R (2016), "Design and implementation of Highly Efficient Boost converter for Autonomous Photovoltaic Pumping system application and its Simulation", Asian Journal of Research in Social Sciences and Humanities, vol. 6, no.6, pp.440-456, June 2016
- 10. Sathishkumar S and Meenakumari R (2016), "Design and Implementation of Six Switch Three Phase Inverter BLDC Motor Drive for Commercial Applications" Asian Journal of Research in Social Sciences and Humanities , Vol. 6, No. 7, July 2016, pp. 1301-1310.
- 11. Sathishkumar S and Meenakumari R (2016), "Design and Implementation of Modified Buck Boost Converter Fed B4 Inverter for Brushless Dc motor drive using Low Cost DSPIC Controller" Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 10, October 2016, pp. 1079-1101
- 12. Priyadharshini N, Meenakumari R and Priyadharshini N(2016) "Optimal placement of Phasor Measurement Unit based on Power System Loss Index" Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 10, October 2016, pp. 1079-1101
- 13. Shanmugam, Sathish Kumar, Ramachandran Meenakumari, Kanagaraj, Krishna Kumar, Loganathan and Anbarasu (2017) "Sensor less control of four-switch inverter for brushless DC motor drive and its simulation" Circuits and Systems Web of Science, Vol 7, No.7, pp. 726-734

- 14. Kumar, S Sathish and Meenakumari. R (2017) "Design and Implementation of Highly Efficient Boost Converter for Autonomous Photovoltaic Pumping System Applications and its Simulation" Asian Journal of Research in Social Sciences and Humanities, Vol 6, No6, pp.440-456
- 15. Priyadharshini N, Meenakumari. R and Priyadharshini M (2017) "Optimal Placement of Phasor Measurement Unit based on Power System Loss Index" Asian Journal of Research in Social Sciences and Humanities, V 6, No.11, pp.479-491
- 16. Niveditha N, Meenakumari R (2016) "Modeling of permanent magnet synchronous machine using Matlab's Simscape language" International Journal for Trends in Engineering & Technology, Vol.14, No.1, pp.56-59, June 2016
- 17. Shanmugam, Sathishkumar and Ramachandran Meenakumari (2017) "Modeling and Simulation of Controlled Online UPS Inverter Using Soft Computing Techniques" Water and Energy International SCOPUS, Vol. 59, No. 10, pp.32-38
- 18. Meenakumari R, Lokanadham K and Dharanisree K (2017) "A Unitary Solar Photo-Voltaic Hybrid System Implementation and Control Using ANFIS Controller" i-Manager's Journal on Instrumentation & Control Engineering, Vol.5, No.2, pp.26
- 19. Suresh M, Meenakumari R (2017) "Optimal Planning of Solar PV/WTG/DG/Battery Connected Integrated Renewable Energy Systems for Residential Applications using Hybrid Optimization" International Journal of Industrial Engineering, Vol.2, No. 1, pp.15-20
- 20. Shanmugam, Sathish Kumar, Arumugam, Senthilkumar, Palanirajan, Gowtham, Ramachandran Meenakumari, Kanagaraj and Krishna Kumar (2017) "Implementation of solar photovoltaic array and battery powered enhanced DC-DC converter using B4-inverter fed brushless DC motor drive system for agricultural water pumping applications" Journal of Vibro engineering SCOPUS, Vol. 20, No. 2, pp.1214-1233
- 21. Suresh M and Meenakumari R (2017) "Software Tools for Analyzing the Integration of Various Renewable Energy Systems" International Journal of Industrial Engineering, Vol. 2, No.6, pp.135-140
- 22. B. Gokul, M.Suresh and Dr. R. Meenakumari (2017) "Optimal sizing of hybrid system for stand-alone application using genetic algorithm" World Journal of Engineering Research and Technology, Vol. 3/ Issue 2/ pp: 45 -568
- 23. Suresh.M, Meenakumari.R, Prasanna.P ,Saravana Kumar.E, Sarvesh.P5 (2017) "Design and Development of Optimal Sizing of Integrated Renewable Energy Systems for electrifying the rural areas in Nilgiris District" International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE), Vol. 5, Issue 3
- 24. Senthilkumar Arumugam, Sathish Kumar Shanmugam, Anbarasu Loganathan, Gowtham Palanirajan and Meenakumari Ramachandran (2018) "A novel bridged-insert cascaded five level inverter topology" Journal of Measurements in Engineering ESCI, WOS, Vol. 6, No. 4, pp.297-310
- 25. M. Suresh, R. Meenakumari, R. Ashok Kumar, T. Alex Stanley Raja, K. Mahendran, A. Pradeep (2018) "Fault Detection and Monitoring of Solar PV Panels using Internet of Things" International Journal of Industrial Engineering, Vol.2, Issue.6, pp.146-149, June 2018.
- 26. M.Suresh, Dr.R.Meenakumari, Dr.P.S.Raghavendran, V.Gowrishankar, P.Karthikeyan, V. Surendar, C. Jagan, N. Krishna Prashant (2018) "Design and Development of Automatic Whiteboard Cleaner for Effective Cleaning Mechanism using Arduino" International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE), Vol. 6, Issue 9, September 2018.
- 27. M.Suresh, V.Gowrishankar, Dr.R.Meenakumari, Dr.P.S.Raghavendran S.Koushik, M.Sasikumar, K.C.Aruna (2018) "Modelling and analysis of two phase interleaved boost Dc to DC converter for renewable energy applications" International Journal of Advanced Research in Science, Engineering and Technology (IJARSET), Vol. 5, Issue 10, October 2018.

- 28. M.Suresh, Dr.R.Meenakumari (2019) "An improved genetic algorithm based optimal sizing of Solar Photovoltaic/ Wind Turbine Generator/ Diesel Generator/ Battery connected Hybrid Energy Systems for standalone applications" International Journal of Ambient Energy, Taylor and Francis (Indexed in ESCI, Scopus, PUBDB, Web of Science), https://doi.org/10.1080/01430750.2019.1587720
- 29. Priyadharshini Nateson, Meenakumari Ramachandran, Sathish Kumar Shanmugam (2019) "Design and implementation of hybrid Kalman filter for state estimation of power system under unbalanced loads" The Journal of Engineering(Indexed in SCOPUS), Vol.2019,Issue. 5, pp.3442-3447, May 2019.
- 30. Sathish Kumar Shanmugam, Yuvaraj Duraisamy, Meenakumari Ramachandran and Senthilkumar Arumugam (2019) "Mathematical modeling of first order process with dead time using various tuning methods for industrial applications" Journal of Mathematical Models in Engineering (MME), Vol. 5, No.1, pp.1-11
- 31. P.Logeshwaran, N.Magudeeswaran S.Pavithran, M.Suresh, S.Suganya, Dr.R.Meenakumari, Dr.Mohammad Israr and S.Arunkumar (2020) "Development of Cost Effective Tapioca Harvester for Agricultural Applications" International Journal of Scientific and Technology Research, Elsevier (SCOPUS indexed), No.1, pp: 4267-4270, January 2020
- 32. M Suresh and R Meenakumari (2020), "An improved genetic algorithm-based optimal sizing of solar photovoltaic/wind turbine generator/diesel generator/battery connected hybrid energy systems for standalone applications" International Journal of Ambient Energy SCOPUS, Online journal / pp.1-8

PUBLICATIONS –INTERNATIONAL CONFERENCES (12)

- 1. Ramya P and Meenakumari R, "Model predictive direct torque control of PMSM with optimized duty cycle", Proceedings of International conference Intelligent systems and control, on 9th 10th January, 2015 at CIT, Coimbatore.
- 2. Madhu bala S.and Meenakumari R , "Optimum generation scheduling using an improved adaptive shuffled frog leaping algorithm", Proceedings of International conference on Cognitive computing and information processing March 3-4, 2015 at JSS academy of Technical Institution, Noida.
- 3. Keerthana Suganthi V and Meenakumari R, "Hybrid Imperialist competitive algorithm: A metaheuristic approach to solve security constrained optimal power flow", Proceedings of International conference on Cognitive computing and information processing March 3-4, 2015 at JSS academy of Technical Institution, Noida.
- 4. Anita A, Sasikala R, Meenakumari R, "Design and Development of low power reduced delay double tail comparator", Proceedings of International conference on Advanced Engineering and Technology for sustainable development, March 5-6,2015 at Karpagam College of Engineering, Coimbatore.
- 5. Suresh M and Meenakumari R, "Economic analysis of solar PV/wind/diesel/battery connected integrated renewable energy systems for residential applications", Proceedings of International conference on Recent advance on Bio energy research, March 14-17, 2015 (Springer IEEE publications on 2016,pp 345-355)
- 6. Shanmuga Priya A T and Meenakumari R, "Grid synchronization using an adaptive low pass notch filter phase locked loop", Proceedings of International conference on Innovation in information, embedded and communication systems at Karpagam College of Engineering, Coimbatore, 19th 20th March, 2015
- 7. Suresh M, Dhivakhar V, Meenakumari R and J Ezhilkumaran (2016), "An Efficient text detection in natural scene images using MSER based approach", IEEE sponsored International Conference on Electronics and Communication systems, ICECS 2016, 25th 26th February, 2016 at Karpagam College of Engineering, Coimbatore

- 8. Muthusamy Suresh Ramachandran, Meenakumari (2016) "Economic analysis of solar PV/wind/diesel generator/battery connected integrated renewable energy systems for residential applications"
- 9. Proceedings of the First International Conference on Recent Advances in Bio energy Research, 26th April 2016.
- 10. Gayathri B and Meenakumari R (2017), "Solving Unit commitment problem af standard bus system using adaptive dynamic programming", Proceedings of the International Conference on Contemporary topics on Power Engineering and Aiding technologies ICCPEAT 2017, 24th Febrauary 2017 at Pondichery Engineering College, Ponidechery
- 11. Kohila R and Meenakumari R (2017), "Predicting calorific value of mixed food using image processing", Proceedings International conference on innovations in information, embedded and communication 17th 18th March ,2017
- 12. Muthusamy, Suresh and Ramachandran Meenakumari (2017) "Economic analysis of solar PV/wind/diesel generator/battery connected integrated renewable energy systems for residential applications" Proceedings of the First International Conference on Recent Advances in Bioenergy Research, pp. 345-355