

SSN COLLEGE OF ENGINEERING

DEPARTMENT OF EEE

LIST OF JOURNAL PUBLICATIONS – 2016-2017

1. M. Venmathi , FT Research Scholar/EEE and Dr. R. Ramaprabha, Assoc. Prof./EEE, “Investigation on Fuzzy Logic Based Centralized Control in Four-Port SEPIC/ZETA bidirectional Converter for Photovoltaic Applications”, International Journal on Advances in Electrical and Computer Engineering, Vol. 16, No. 1, pp. 53-60, 2016, (Print ISSN: 1582-7445, Online ISSN: 1844-7600), SJR Impact factor 0.26. (DOI: 10.4316/AECE.2016.01008), Thomson Reuters Impact factor : 0.642.
2. G. Ramya (FT Research Scholar) and Dr. R. Ramaprabha/Assoc. Prof., “Fuzzy logic controller for partial shaded photovoltaic array fed modular multilevel converter”, IET Power Electronics, Vol. 9, No. 8, pp. 1694-1702, 2016, (Online ISSN 1755-4543; Print ISSN 1755-4535), SJR Impact factor 1.08. (DOI: 10.1049/iet-pel.2015.0737), Thomson Reuters Impact factor : 1.683.
3. J. Anitha Roseline , M. Senthil Kumaran, V. Rajini,"Generalized space vector control for current source inverters and rectifiers", Archives of Electrical Engineering. Volume 65, Issue 2, Pages 235–248, ISSN (Online) 2300-2506, DOI: 10.1515/ae-2016-0016, June 2016. (Thomson Reuter indexed).
4. Dr.R.Seyezhai, ASSP/EEE and M.S.Rajan titled, "Capacitor Voltage Balancing Control for Modular Multilevel Cascaded Inverter Based on Phase Shifted Pulse Width Modulation Technique", Advances and Natural Applied Science, 2016, pp.205-214. (AU,Annx.-II).
5. Dr.R.Seyezhai, ASSP/EEE, M.Sudhakaran (Research Scholar) titled, "Fault Identification and Diagnosis of Induction Motor Using Neural Networks", Middle-East Journal of Scientific Research 24 (6): pp.2009-2012, 2016. (AU, Annx.-II). DOI: 10.5829/idosi.mejsr.2016.24.06.23585. ISSN 1990-9233.
6. Anuradha R(Student PG) , Anbuselvi M(Faculty-ECE) and Saravanan P(Faculty-EEE), “Torque Ripple Minimisation Of BLDC Motor Using Vector Control Algorithm”, International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 23,pp:94-97. Issue 2 – June 2016,paid, India.
7. M.Tamilarasi and R.Seyezhai, “ A review of optimization algorithms for the modeling of proton exchange membrane fuel cell”, AIP Journal of renewable & Sustainable Energy, Vol.8, Issue 3, June 2016, pp.034301-1-04301-13. ISSN : 1941-7012.(Indexed in Thomson Reuters) Impact factor : 0.96.AU Annx-1
8. R. Seyezhai and V. Aarthi (Passed out PG batch 2016), “Simulation And Implementation Of AC-DC Interleaved Boost Converter With Voltage Multiplier For PHEV”, ICTACT Journal On

Microelectronics, July 2016. Volume: 02, Issue: 02, Pp.247256. ISSN: 2395-1680. No Pay Journal. (Published India)

9. G.R.Venkatakrishnan, J. Mahadevan, R.Rengaraj , " Grey Wolf Optimizer For Economic Dispatch With Valve Point Loading ", International Journal Of Advanced Engineering Technology (IJAET), Vol. 7, No. 3, pp. 158-163, July 2016. E ISSN:0976-3945
10. Saravanan P, Senthil Kumaran M and Arumugam R, "FPGA Based Speed Control of SRM with Optimized Switching Angles by Self Tuning", Circuits and Systems, vol. 7, pp: 1530-1545, July 2016. 2153-1285 (Updated Annx.-1).
11. Dr.R.Seyezhai, ASSP/EEE &M.Sudhakaran (Part-time research scholar), "Modeling and Analysis of Variable Frequency Inverted Sine PWM Technique for a Hybrid Cascaded Multilevel Inverter", Journal of Circuits and Systems, July 2016, Vol.7, pp.2633-2650. (Updated Annx.-1).
12. Chitravalavan,. R. Seyezhai, "Design and Experimentation of FPGA-Based Soft-Switched Interleaved Boost Converter for Telecommunication System Circuits and Systems," 7, July 2016, pp.2702-2711 ISSN : 2153-1285.Published Abroad), UpdatedAnnx-1.
13. R.Seyezhai, and V.Chamundeeswari, "Comparative Analysis of Analog and Digital Controllers for Negative Output Superlift Luo Converter (NOSLC)", Circuits and Systems, 2016, 7, pp.1689-1700. doi.org/10.4236/cs.2016.78146. ISSN: 2153-1285. (Published Abroad), Updated Annx-1
14. Murugesan Kullam ASSP/EEE, Ranganath Muthu Prof/EEE, Jebamalai Benny Mervin, Vijayenthiran Subramanian, titled, "Design of DSTATCOM Controller for Compensating Unbalances" in Journal of Circuits and Systems, Vol.7, No.9 July 2016, PP. 2362-2372.
15. Dr.R.Deepalaxmi (Asso.Prof/EEE), C.Preethi, V.Preethi and R.Priyadharshini (passed out BE EEE students), "Design and development of prototype model of long duration impulse current generator" in International Journal of Advanced Scientific research and Management (IJASRM) , Vol 1, Issue 6, PP 70-74, September 2016. [ISSN 2455-6378; Publication impact factor (PIF)- 1.152].
16. V.Rajini Prof/EEE, W.Abitha memala(Research scholar) , titled" Motor current signatures and their envelopes as tools for fault diagnosis", Intelligent Automation and soft computing , Taylor and Francis , ISSN: 1079-8587 (Print) 2326-005X (Online), DOI: 10.1080/10798587.2016.1225338.
17. Vaishnavi D, Sundari E, Sangeetha T V, Shrinidhi S and Saravanan P, "Design and development of computational intelligence for enhanced adaptive cruise control using Arduino", Applied Mechanics and Materials, Vol.852, pp:782-787, ISSN: 1662-7482
18. Prashaanth R, Sindhu S L, Veena S, Srilakshmi P S and Saravanan P, "Low cost battery operated vehicle using joystick control for physically challenged", Applied Mechanics and Materials, Vol.852, pp:788-793, ISSN: 1662-7482

19. Mahadevan J, Venkatakrishnan G R AP/EEE, Rengaraj R Prof/EEE titled " Differential evolution algorithm with parameter adaptation strategy for optimal design of hybrid renewable energy system", Journal of Electrical Engineering, Vol.16, 3rd Edition, pp. 419 - 429, 2016. (Journal listed in Anna university Annexure I) Impact factor: 0.967.
20. Siva Kumar A; Muthu Selvan N B ASSP/EEE, titled, "Reduction of Source Current Harmonics in R and RL Load with Active Filter at Source End", Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 10, pp. 298-310, October 2016. DOI NUMBER:10.5958/2249-7315.2016.01015.7, ISSN 2249-7315.
21. A.Bharathi Sankar (Full-time research scholar)& Dr.R. Seyezhai, ASSP/EEE, "Performance Analysis of Multilevel Inverter for BLDC drive application", Advances in Natural & Applied Sciences, 2016, special : 9 (7), pp.190-200, ISSN:1995-0772.(Indexed in SCOPUS)
22. P.Priya , G.Shabbeer Basha , S.V.Sujith Niranjan (III Yr.EEE, B) & R. Seyezhai, "Investigation of SiC MOSFET Based Quadratic Boost Converter for Photovoltaic Applications", Int. Journal of Precious Engineering Research and Applications, IJPERA, ISSN : 2456-2734, Vol. 1, Issue 3,October 2016, pp.26-29.
23. S.Hemapriya, M.Sudhakaran (Part-time research scholar), R.Seyezhai, "Implementation of Robust Industrial Machinery Predictive Maintenance and Control Using Modern Technology", International Journal of Electrical Engineering, SSRG, 2016, pp.22-27. ISSN No: 2348- 8379.
24. R.Seyezhai and D.Umarani, "Study of Z-Source Inverter Impedance Networks Using 2 ω Analysis for Photovoltaic Applications", Applied Mechanics and Materials, Vol.852, October 2016, pp.867-874. ISBN-13, 978-3-03835-777-3. Scopus indexed. (Published abroad). AU Annx-2,SJR FACTOR : 0.11
25. Dr.R.Seyezhai, K.Deepak, R.Gowtham, T.Hariharan & Manimaran (passed out final year 2016 batch), titled "Simulation and Implementation of e-cycle using BLDC drive", International Journal of Advanced research in basic engineering, science & technology, Vol.2, Issue-10, October 2016, ISSN -2395-695X,pp.1-12.This paper received the best research paper award for the October issue and the project work was funded by SSN Institutions .
26. R. Ramaprabha, G. Ramya (Full-time research scholar), U. Ashwini (UG Student) and A.H. Fathima Humaira (UG Student), "Realization of a Photovoltaic Fed Sparse Alternating Current (AC)-Link Inverter", The Journal of Engineering Research (TJER) (ISSN: 1726-6009), Vol. 13, No. 2, pp. 149-159, TJER 2016. Scopus Index 0.15 – Annexure II
27. Dr.R.Seyezhai, ASSP/EEE and V.Chamundeeswari (Part-time research scholar) titled, "An Approach towards Pulse Data Transmission Using Modified Negative Luo Converter (MNL) for Telecoms", Circuits and Systems, 2016, 7, 2712-2728. ISSN:2153-1285 (Updated List AU).

28. Thiagarajan V., AP/EEE, titled "Comparative analysis of PWM techniques for Photovoltaic application with HERIC inverter" in Journal of Advances in Chemistry, Vol. 12, no. 16, pp. no. 4950-4955.
29. Rajini V Prof/EEE, Anoop J, on " Large Signal Modeling of DC-DC Converter with Multiplier Cells for High Voltage Generation" World Applied Sciences Journal 34 (10): 1414-1421, 2016,ISSN 1818-4952, DOI: 10.5829/idosi.wasj.2016.1414.1421.
30. Rajini v Prof/EEE , Abhitha memala," Parametric Method based Inter-Turn Incipient Short Circuit Stator Fault Detection of Induction Motor"Indian Journal of Science and Technology, Vol 9(43), DOI: 10.17485/ijst/2016/v9i43/104668, November 2016.
31. Nivedhitha, T., Sahithya, S., Vaishnavi, G.(passed out final year 2016 batch) and R. Seyezhai, titled "Investigation of High Gain Switched Capacitor DC-DC Converter For PV Applications", International Journal of Current Research, Vol. 8, Issue, 11, , November, 2016.(ISSN:0975-833X). pp:40448-40455.
32. R.Seyezhai & S.Harika (II YR.M.E.,PED), " Analysis of Modulation strategies for two-stage Interleaved voltage source inverter for photovoltaic applications", International Journal of Advanced research in basic engineering, science & technology, Vol2, Issue-11, November 2016. pp.1-12. ISSN -2395-695X, (Published India) Received the best research paper award for Nov.2016 issue.
33. R.Seyezhai & R.Mahalakshmi (II YR.M.E.,PED), "Review of Integrated Power Factor Correction (PFC) Boost converter topologies for Telecommunication systems", International Journal of Advanced research in basic engineering, science & technology Vol2, Issue-1, November 2016, ,pp.13-23. ISSN -2395-695X, Pay Journal(Published India)
34. A.Bharathi Sankar (Research Scholar) & Dr.R. Seyezhai, titled "Implementation of adaptive fuzzy logic control based MPPT for photovoltaic based system", International Journal of U,e-service,science and technology,Vol.9, No: 10, 2016,pp.103-122.(Scopus Indexed).
35. U.Shajith Ali, "Z-source DC-DC Converter with Fuzzy Logic MPPT Control for Photovoltaic Applications", December 2016, Elsevier Energy Procedia, Vol.90, pp. 163-170. Scopus indexed, Impact factor: 0.378.
36. R.Seyezhai and D.Umarani, "Modeling and Control of Quasi Z-source Cascaded H-bridge Multilevel Inverter for Grid Connected Photovoltaic Systems",Energy Procedia, Elseveir, Vol.90, Dec.2016,pp.250-259. ISSN: 1876-6102. (Indexed in SCOPUS).AU Annx-2. SJR FACTOR : 0.38
37. M.Praveen kumar, M.Sudhakaran, R.Seyezhai, "Kinect Sensor based Human Fall Detection System Using Skeleton Detection Algorithm International Journal of Electrical Engineering, SSRG, 2016, pp.22-27. ISSN No: 2348- 8379. Published in India.

38. M. Sudhakaran and R. Seyezhai, "A Review of Various Carrier PWM Techniques for Trinary Cascaded Multilevel Inverter", Middle-East Journal of Scientific Research Vol.24, 2016, pp.81-89, DOI: 10.5829/idosi.mejsr.2016.24. ISSN 1990-9233. (Published Abroad). AU Annx-2. SJR FACTOR : 0.16.
39. A. Inba Remy, R. Seyezhai, "Investigation of Current Control Techniques of AC-DC Interleaved Boost PFC Converter", Circuits and System, 2016, Vol.7, pp. 307-326. ISSN:2153-1285. (Published Abroad). Updated Annx-1.
40. N. Hemalatha, R. Seyezhai, "Modified Diode Assisted Extended Boost Quasi Z-Source Inverter for PV Applications", Circuits and System, Vol.7, No: 10, 2016, pp.3271-3284. ISSN: 2153-1285. (Published Abroad) Updated Annx-1.
41. R.Seyezhai, V.J.Sudarshan, M.Sunil Kumar and S. Venkat Brama Vignash (passed out UG batch), "Design and FPGA Control of Modular Multilevel Inverter for Photovoltaic Applications", Elixir Elec. Engg, 100 (2016) pp.43768 – 43773, ISSN 2229-712X. Pay Journal (Published abroad).
42. A. Sivakumar and Dr. N.B. Muthu Selvan, ASSP /EEE titled, "Harmonic Analysis in Induction Motor Drive with Boost Converter", International Journal of Printing, Packaging & Allied Sciences, ISSN: 2320-4387, Volume: 4, Issue: 2, December , 2016. (Annexure 1 of Anna University)
43. Augusteen and R.Rengaraj, "Economical Operation of Thermal Generator Involving Transmission Loss Using Novel Capra Optimization Algorithm", Journal of Electrical Engineering : Vol.16, No.4,2016, pg.no.179-189. (Journal listed in Anna university Annexure I) Impact factor: 0.967
44. Johnson Uthayakumar.R, Natarajan S.P. Ranganath Muthu, "Realization Investigation of Three Phase Seven Level Asymmetrical Inverter with Triangular Reference and Hybrid Carrier", International Journal of Applied Engineering Research ISSN 0973-4562, Volume 11, Number 3 ,pp 1942-1949 (2016).
45. G. Ramya and R. Ramaprabha, "A review on design and control methods of modular multilevel converter", International Journal of Power Electronics and Drive System (IJPEDS), Vol. 7, No. 3, pp. 857-865, 2016. (ISSN: 2088-8694) (DOI: <http://dx.doi.org/10.11591/ijpeds.v7.i3>) Scopus Index 0.24. Foreign International Journal - Paid
46. M. Venmathi (Full-time Research scholar/SSNCE) and R. Ramaprabha, "Analysis of controllers for the dynamic response enhancement of the three-port full-bridge DC-DC converter interfacing photovoltaic system", Int. J. Automation and Control, Vol. 11, No. 1, 2017, pp. 67-88 (ISSN online: 1740-7524; ISSN print: 1740-7516) **Scopus Index 0.16**
47. Leo Raju, Prithika Rani M, Sajna.G, Srinidhi.J(Third year students), " Arduino based Autonomous Energy Management of a Micro-Grid using Multi Agent System", International

Journal of Control Theory and Applications (IJCTA), Scopus Indexed, Impact factor 0.53 Anna University Annexure II.(unpaid)

48. V. Krishnakumar, V. Kamaraj, C. Adrien Perianayagam, "An Integrated Drive for Two PMSMs Involved Automotive Applications and Development of Current Reference Expanded Two Arm Modulation Technique," *Circuits and Systems*, 7, 1794-1815. ISSN:2153-1285 (Published Abroad) Updated Annx-1.
49. V.Rajini published paper titled, " A novel control scheme to improve the spectral quality of a single-phase bridgeless boost rectifier", *International Journal of Power Electronics*, Vol. 8, No. 1, pp 52-67 ,2016, inderscience publishers, ISSN online: 1756-6398.scopus indexed.
50. Dr.R.Seyezhai ASSP/EEE, M.Sudharan (part-time Research scholar), " Performance Evaluation of Level Shift PWM Technique for an Cascaded Multilevel Inverter", *International Journal of Printing, Packaging & Allied Sciences*, Vol.4(3), pp. 2070-2082 Dec.2016. ISSN : 2320-4387. (Annexure-1).
51. M. Venmathi, R. Ramaprabha (ASSP/EEE), "Implementation of zero voltage switched SEPIC/ZETA bidirectional converter for low power applications using FPGA", *Turkish Journal of Electrical Engineering & Computer Sciences*, Vol. 25, pp. 319-336, 2017 (ISSN online: 1303-6203; 1300-0632) Scopus Index 0.339(DOI: doi:10.3906/elk-1505-81) Thomson Reuters Impact factor : 0.5.
52. V.S.Nagarajan AP /EEE, M.Balaji ASSP/EEE, V.Kamaraj Prof/EEE et al, "Design optimization of ferrite assisted synchronous reluctance motor using multi-objective differential evolution algorithm", *COMPEL - The international journal for computation and mathematics in electrical and electronic engineering*, 36(1), 2017, pp. 219–239. doi: 10.1108/compel-06-2016-0253. (Annexure 1), (Thomson Reuters indexed), (Impact factor – 0.430).
53. V.S.Nagarajan AP/EEE, V.Kamaraj Prof/EEE, M.Balaji ASSP/EEE et al, "Effect of Geometrical Parameters on Optimal Design of Synchronous Reluctance Motor' in *Journal of Magnetics*, Vol.21 No.4, 2016, 544-553. (Annexure 1), (Thomson Reuters indexed), (Impact factor – 0.421).
54. M.Karthikeyan and R.Rengaraj, "Mutual Impedance Based Protection Scheme for Series Compensated Transmission Line", *International Journal of Control Theory and Applications*, Vol.10 No.2, 2017, PP.165-181. (Scopus Indexed, Annexure-II).
55. M.Karthikeyan and R.Rengaraj, "Fault Classification and Location of an UPFC-Compensated Transmission Line Using Extreme Learning Machine", *International Journal of Control Theory and Applications*, Vol.10, No.2, 2017, pp.183-194 (Scopus Indexed, Annexure-II).
56. Rajini V, Alagu dheeraj AP/EEE, " Center Clamped Forward Converter for High Current Applications", *J. Comput. Theor. Nanosci.* 14, 395–402 (2017), ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online) scopus indexed (Annexure 1).
57. V. Rajini, W. Abitha Memala , " Wavelet Based Induction Motor Fault Diagnosis Using Zero Sequence Current", *J. Comput. Theor. Nanosci.* 14, 411–420 (2017) ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online),) scopus indexed (Annexure 1).

58. V.Rajini, W. Margaret Amutha, "A novel self powered wireless sensed network", International Journal of Computer Networks and Wireless Communications (IJCNCW), ISSN: 2250-3501, Vol.7, No 1, Jan-Feb 2017, scopus indexed.
59. Thiyagarajan V., AP/EEE, "Modified Nine Level Inverter with Reduced Number of Switches" in "International Journal of Control Theory and Applications", ISSN : 0974-5572, Vol.10, No. 2 (2017), PP 217-225. (Anna University Annexure 2, Scopus Indexed).
60. S. Iyappan, SRA/EEE, R. Ramaprabha, Asso.Prof./EEE, "Design and Implementation of Brushless DC Motor based Solar Water Pumping System for Agriculture using Arduino UNO", International Journal of Engineering and Technology (IJET), ISSN (Print): 2319-8613 ISSN (Online) : 0975-4024, Vol. 9, No. 1, pp. 224-232, Feb 2015 (DOI: 10.21817/ijet/2017/v9i1/170901424). Scopus Index 0.177.
61. Thiyagarajan V., AP/EEE, Gokul Kumar V, Karthickeyan B, Naveen Kumar E, Nikilaesh A (Passed Out Students) "Tesla Turbine Powered Solar Refrigerator" in International Journal of Recent Trends in Electrical and Electronics Engineering, ISSN : 2231-6612, Vol.04, No. 2 (2017), pp. 50-55.
62. V.Krishnakumar, V.Kamaraj, S.Jeevananthan, "Parallel Fuzzy Logic Controllers for Independent Control of Two Permanent Magnet Synchronous Motors fed by a Five Leg Inverter for Electric Vehicles, vol 17(1)-24,pp: 1-16.
63. V.Krishnakumar, V.Kamaraj, C. Adrien Perianayagam, "Development of New Modulation Technique to Combined Drive for Dual PMSMs applicable in automotive application Journal of Electrical Engineering, vol 17(1)-43,pp: 1-12.
64. A. Sivakumar, N.B. Muthu Selvan published research article, "Reduction of source current harmonics in ANN controlled induction motor", in Alexandria Engineering Journal, Elsevier, Available online 19 April 2017. <http://dx.doi.org/10.1016/j.aej.2017.03.048> (Annexure - II Anna University).
65. K. Kanchana, V.Rajini Prof/EEE, " Experimental Design of Low Loss Filter to mitigate Overvoltage for Long Cable Fed Induction Motor Drive", International journal of electrical engg, vol 17, No1, 2017, ISSN no 1582- 4594(Annexure 1)
66. R. Kavitha, V.Rajini and S.Krishnaveni, "Analysis of Front-End High Gain DC-DC Converters for Pulsed Electric Field Application", International Journal of Electrical and Electronics Engineering (SSRG-IJEEE) , Volume4 Issue-3, 2017,pp 14-19, ISSN: 2348-8379.