SSN COLLEGE OF ENGINEERING

DEPARTMENT OF EEE

LIST OF JOURNAL PUBLICATIONS – 2017

JUNE 2017

1. S. Krishnaveni AP/EEE, Dr. V. Rajini, "Resonant Gate Driver for Series Operation of MOSFETs", Energy Procedia. 117C (2017): pp. 38-45. SJR factor 0.47. (Scopus indexed).

2. M. Venmathi (FT Research Scholar/EEE) and Dr. R. Ramaprabha (Assoc. Prof./EEE), "Fuzzy-PI-based centralised control of semi-isolated FP-SEPIC/ZETA BDC in a PV/battery hybrid system", International Journal of Electronics, Vol. 103, No. 11, pp. 1909-1927, 2016, Taylor & Francis, UK, (ISSN: 0020-7217, 1362-3060) Scopus Index 0.4 (DOI: http://dx.doi.org/10.1080/00207217.2016.1138541) Listed in Thomson Reuters - Published online: 01 Feb 2016.

3. J.AnithaRoseline ASSP/EEE , M.SenthilKumaran ASSP/EEE , Dr.V.Rajini, , Prof/EEE, Published a paper titled " Unified Algorithm for Multilevel Inverters" in IET Power Electronics, Vol.10, issue 7, pp. 808-816, June 2017.

JULY 2017

4. Dr.S.TamilSelvi, ASSP/EEE, "HCC based Interleaved Boost Converter with Optimal Switching Frequency Control of Wind Energy Conversion System for DC Microgrid Application" IET: The Journal of Engineering, ISSN 2051-3305.

5. Thiyagarajan V., AP/EEE, "Design and Simulation of Modified Symmetric and Asymmetric Multilevel Inverter", "Research Journal of Pharmaceutical, Biological and Chemical Sciences", ISSN: 0975-8585, 8(3S), 2017, PP 283-290. (Anna University Annexure 2, Scopus Indexed).

6. M. Venmathi (FT Research Scholar/EEE) and Dr. R. Ramaprabha (ASSP. /EEE), "Impact of modified perturb and observe control on MPPT of PV/battery fed three - port DC-DC converter", ActaScientiarum Technology Journal, Vol. 39, No. 3, pp. 313-323, July-Sept., 2017 ISSN 1806-2563 (Print) e ISSN 1807-8664 (on-line) Scopus Index 0.527 (DOI: http://dx.doi.org/10.4025/actascitechnol.v39i3.29502) Listed in Thomson Reuters.

7. R. Supriya, V. Aishwhariya (UG Students) and Dr. R. Ramaprabha (ASSP/EEE), "Development of an Economic Photovoltaic Array Simulator using an Off-The-Shelf Power Supply", Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS), RJPBCS 8(3S), pp. 317-324, May – June 2017(Suppl.), ISSN: 0975-8585 Scopus Index 0.35.

8. P. Priya, G. ShabbeerBasha, S. V. SujithNiranjan, R. Seyezhai , "Analysis and Experimentation of Quadratic Boost Converter for Photovoltaic Applications," Indian Journal of Science and Technology, Vol. 10(37), 2017/v10i37/117553, October 201. ISSN (Print) : 0974-6846. ISSN (Online) : 0974-5645.Indexed in Scopus.

9. T.Thamizhselvan (part-time research scholar), Dr.R. Seyezhai and K. Premkumar(AP/RIT College, "Comparative Evaluation of Pulse Width Modulation Strategies For Hybrid Multilevel Inverter for Application in Photovoltaic Power Extraction", World Applied Sciences Journal 35 (5): 692-702, 2017, ISSN 1818-4952, © IDOSI Publications, 2017,DOI: 10.5829/idosi.wasj.2017.692.702.

10. Dr.R.Seyezhai, ASSP/EEE and PridhviPrasanth (passed out UGstudent), "Performance Analysis of Four Phase Interleaved Boost Converter for Photovoltaic Applications" Journal of Renewable energy and Resources, Volume 2 Issue 2, 2017 Mantech Publications.

11. R.Seyezhai, R.Sreemallika, "A Novel SEPIC Power Factor Correction Converter for HBLED Applications," MAGNT Research Report (ISSN. 1444-8939) Vol.4(3). PP. 135-141, 2017 ISSN. 1444-8939. Indexed in Thomson Reuters.

12. Dr.U.Shajith Ali, ASSP/EEE, "Performance Enhancement of Modular Multilevel Inverter Using Trapezoidal PWM Control" International Journal of Control Theory and Applications, Vol.10, No.37, pp. 265-271.

13. Subhitcha.R, V.Sowmya (IV Yr.EEE, B) &Dr.R.Seyezhai, ASSP/, "Performance Analysis of PWM based Voltage Source Inverter", International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST) Vol.3 Issue.7 July 2017,pp.1-12.

14. E. Narmadha, M. Sudhakaran (research scholar), K. Vijayakumar, (PG Students, GanadipathyTulsi's Jain Engineering College) & Dr. R. Seyezhai, "Wireless Based Four Quadrant Operation of Three Phase BLDC Motor with Fuzzy Logic Using FPGA Controller", International Scientific Global Journal in Engineering, Science and Applied Research (ISGJESAR), Vol. 2, No. 3, June, 2017 | ISSN: 2456-1894.

15. K.Suganthi, Mr.M.Sudhakaran, Mr.C.Yuvaraj, Dr.R.Seyezhai, ANFIS Based Maximum Power Point Tracking For Solar PV Panel with Cockcroft-Walton Converter Using Modified INC Algorithm," International Scientific Global Journal in Engineering, Science and Applied Research (ISGJESAR), Vol. 2, No. 3, June, 2017. ISSN: 2456-1894.

16. K.Sharmila, Mr.M.Sudhakaran, Mr.S.Iyyappan, R.Seyezhai, "Webcam Enabled Raspberry PI Fire Detection System International Scientific," Global Journal in Engineering, Science and Applied Research (ISGJESAR), Vol. 2, No. 3, June, 2017. ISSN: 2456-1894

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17. Thiyagarajan V., AP/EEE, “Analysis of Multicarrier PWM techniques for Photovoltaic fed Cascaded H-Bridge Multilevel Inverter”, Journal of Electrical and Electronics Engineering (JEEE), P-ISSN: 1844-6035, Vol.10, No. 1 (2017), PP 85-90. (Anna University Annexure 2, Scopus Indexed).

18. Dr.R.Seyezhai, ASSP/EEE and M.Sudhakaran(part-time research scholar), “A Simplified Direct Torque Control-Space Vector Modulation Based Induction Motor Drive for Trinary Hybrid Cascaded H-Bridge Multilevel Inverter”, Journal of Computational and Theoretical Nanoscience, Vol. 14, 1190–1198, 2017, pp.1190-1198. (AU, Annx. -1) (Scopus indexed)

19. Dr.R.Seyezhai, ASSP/EEE and ChitraVallavan (part-time research scholar), “Study and Analysis of Switched Mode DC – DC Converter Topologies for Telecommunication System”, International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS) Volume VI, Issue VI, June 2017 | ISSN 2278-2540. (UGC Approved journal).

20. R.Mahalakshmi (passed out PG Student) and Dr. R. Seyezhai, ASSP/EEE, “ Design and Simulation of an Integrated PFC AC-DC Converter for Telecoms, International Journal of Control Theory and Applications, ISSN : 0974-5572 International Science Press,Volume 10, Number 29, 2017.(Scopus Indexed).

SEPTEMBER 2017

21. Thiyagarajan V., AP/EEE, “New Asymmetric Seven Level Inverter with Minimum Number of Voltage Sources and Switches”,Journal of Electrical Engineering (JEEE), ISSN: 1582-4594, Vol.17, No. 3 (2017), PP 354-359. (Anna University Annexure 1, Scopus Indexed).

22. J. Raji and V. Kamaraj Prof/ EEE, "Analysis of Stability and Dynamic Behaviour of Ultra Lift Luo Converter", Journal of Electrical Engineering & Technology, Vol 12, No5, September 2017(Thomson, Scopus indexed).

23. G. Ramya (FT Research Scholar/EEE), M. Mohana Krishnan (PG Student/EEE) and R. Ramaprabha (Asso.Prof./EEE, “ Comparative Study on Control Methods for PMSM Based Wind Energy Using PI and Fractional Order Controller”, International Journal of Control Theory and Applications (International Science Press) Vol. 10, No.29, pp. 253-263, 2017 ISSN: 0974-5572 Scopus Index 0.2

24. M. Venmathi (FT Research Scholar/EEE) and R. Ramaprabha (Asso.Prof./EEE), “Investigation on Isolated Derived Topology For Differential Power Processing in Photovoltaic System”, International Journal of Control Theory and Applications (International Science Press) Vol. 10, No.29, pp. 265-272, 2017 ISSN: 0974-5572 Scopus Index 0.2

25. S. Malathy (Asso.Prof./EEE), R. Ramaprabha (Asso.Prof./EEE), B. Kabilram, K. Manirajan, K. Marriappan and G. Vignesh (UG Students), “ Performance Analysis of Reduced Device Count Multilevel Inverter with Low Frequency PWM Schemes”, International Journal of Control Theory and Applications (International Science Press) Vol. 10, No.29, pp. 345-354, 2017 ISSN: 0974-5572 Scopus Index 0.2

26. Ramya (Full Time Research Scholar), Dr.M. Balaji (ASSP/EEE), " A new approach for minimizing torque ripple in a BLDC motor drive with a front end IDO dc-dc converter" in Turkish Journal of Electrical Engineering & Computer Sciences,Vol.25,pp.2910-2921,2017. (Thomson Reuters indexed,Scopus), (Impact factor – 0.578).

27. S. Gowtham(Part Time Research Scholar), M.Balaji(ASSP/EEE), S. Harish, M.S. Abraham Pinto, G. Jagadeesh, "Fault Tolerant Single Switch PWM DC-DC Converters for Battery charging Applications", Energy Procedia,(Scopus) Vol. 117,pp. 753–760, 2017.

28. P. Saravanan, M. Balaji, K. BalajiNagaraj and R. Arumugam, "Analysis of Neural Network Approaches for Nonlinear Modeling of Switched Reluctance Motor Drive" Journal of Electrical Engineering and Technology, Vol.12, No.4, 2017, pp.1548-1555. (Thomson Reuters indexed), (Impact factor – 0.679).

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29. M. Joly and R. Ramaprabha ASSP/EEE, published a paper titled “Design of Battery less Hybrid PV System for DC Distribution System in Building Applications with Improved Transient Response”, Journal of Electrical Engineering (ISSN 1582-4594), Vol. 17, No. 3, pp. 384-391, Sep 2017. Scopus Index 0.16. (Listed in AU Annexure 1).

30. Dr.R.Seyezhai, ASSP/EEE and S.T.NamithaShanili (passed out PG Student) , “A Review of Multi-Input DC-DC Converter Topologies for DC Micro Grid”, International Journal of Control Theory and Applications, Vol.10, No: 29,2017. **(Scopus Indexed).**

31. Dr.R.Seyezhai, ASSP/EEE and N.Hemalatha (Full-time scholar) published a paper titled, “A Single Stage Power Conditioning of Extended Boost Quasi Z-Source Inverter for PV Applications”, Journal of Electrical Engineering, Vol.3, 2017. (AU Annexure-1 & Indexed in Scopus)

32. Dr.R.Deepalaxmi , Asso.Prof/EEE,D.Janani , B.Kaviya, Manisha V Bachpai and M.DurgaiVadivu(Passed out BE/EEE students) published a paper titled PAPER ID : V2S10_348 “Modelling and Implementation of Long Duration Impulse Current Measurement Circuit” in

International Journal of Advance Scientific Research and Management IJASRM Volume 2,Issue 10, PP. 34-40, October 2017. IF-3 ISSN [ONLINE] : 2455-6378

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33. S. Malathy and R. Ramaprabha, published a paper titled"Reconfiguration strategies to extract maximum power from photovoltaic array under partially shaded conditions", International Journal on Renewable & Sustainable Energy Reviews (ISSN 1364-0321), Vol. 81, pp. 2922-2934, 2018. (DOI: http://dx.doi.org/10.1016/j.rser.2017.06.100), Scopus Index 3.12, Thomson Reuters Impact factor : 9.122 – Available online.

34. Dr.R.Seyezhai, ASSP/EEE and V.Chamundeeswari (part-time research scholar) published a paper titled, " PSO-PID maximum power point tracking controller using modified superliftLuo Converter", Energy Procedia,, 2017, pp.87-94.

December- 2017

35. Dr P Saravanan ASSP/EEE published a paper titled, "Image coding using Cellular Automata based LDPC codes", in International Journal of Computer Science and Network Security, Vol.17 No.11, pp. 146-150, 2017, (Thomson Reuters).

36. Dr.A.Bharathisankar&Dr.R.Seyezhai, ASSP/EEE, published a paper titled, " Implementation of Solar based Electric Vehicle," International Journal of Engineering Research in Electrical and Electronic Engineering Volume-4 ,November 2017 ISSN (Online) 2395-2717.

37. V.K.Vishwak (passed out PG) &Dr.R.Seyezhai, ASSP/EEE published a paper titled, " Design and Simulation of Superlift DC-DC Converter for Solar PV Applications International Journal of Advances in Computer and Electronics Engineering Volume 2, Issue 9, September 2017, pp. 22–28 ISSN: 2456 – 3935.

38. PranatiKatyal&RanganathMuthu, 'Hardware Implementation of Interleaved Boost Converter for Wind-Solar Hybrid System', Advances in Natural and Applied Sciences, Vol. 11, No. 7, pp. 241-252, May 2017. SJR 0.115.

39. MrunalDeshpande, M SenthilKumaran&RanganathMuthu, 'Direct Torque Control of the Direct Three Level Matrix Converter Based on Induction Motor Drive', Rev. Téc. Ing. Univ. Zulia, Vol. 39, No.11, pp. 194 - 204, 2016, doi:10.21311/001.39.11.24, Impact Factor 0.033, SNIP 0.27, SJR 0.118.

40. A. Balasubramanian&RanganathMuthu, 'Model Based Fault Detection and Diagnosis of Doubly Fed Induction Generators – A Review", Energy Procedia, Vol.117, pp. 935–942, 2017, Elsevier. SNIP 0.586, SJR 0.467.

41. MrunalDeshpande, SenthilKumaranMahadevan, RanganathMuthu, 'FPGA based direct three level matrix converter', International Journal of Electronics, Electrical and Computational System (IJCEES), Vol. 6, No. 9, pp. 730-741, September 2017.

42. AD Senthil Kumar, TS Anandhi, RanganathMuthu, 'Secure Video Compression and Integration Technique for Data Transmission, International Journal of Computer Network and Information Security, Vol. 11, pp. 63-70, 2017.

43. Lakshmi D, PeerfathimaAbdulkareem, RanganathMuthu, 'Two-area load frequency control with redox flow battery using intelligent algorithms in a restructured scenario', Turkish Journal of Electrical Engineering & Computer Sciences, Available online, 2017. Impact Factor 0.578.

44. Murugesan K, SenthilKumaran M, AnithaRoseline, RanganathMuthu, 'Decoupled indirect duty cycle PWM technique with carrier frequency adjustment for a matrix converter', Turkish Journal of Electrical Engineering & Computer Sciences, Available online, 2017. Impact Factor 0.578.

45. Leo Raju, Antony AmalrajMorais, RamyaaRathnakumar, P. Soundaryaa, L. D. Thavam, "Micro-grid Grid Outage Management using Multi Agent Systems," *Energy Procedia.*, vol.117,pp. 112–119, 2017. (SJR: 0.47, JCR: 1.16, Scopus Indexed,ISSN: 1876-6102).

46. V. Thiyagarajan and P. Somasundaram, "Modified Nine Level Inverter with Reduced Number of Switches", International Journal of Control Theory and Applications, Vol.10, No. 2 (2017), PP 217-225. (ISSN : 0974-5572, Anna University Annexure 2, Scopus Indexed, Impact factor 0.169)

47. Dr.U. Shajith Ali, ASSP/EEE, "Impedance source converter for photovoltaic stand-alone system with vanadium redox flow battery storage", International Journal Materials Today Proceedings, Elsevier, Vol.5, Issue 1, pp. 241-247. Scopus indexed

48. G. Ramya, R. Ramaprabha ASSP/EEE, "Mitigation Technique to Eliminate Multiple Peaks for Photovoltaic Fed Modular Multilevel Converter under Partial Shading Phenomenon", International Journal of Darshan Institute on Engineering Research & Emerging Technologies (IJDI – ERET), Vol. 6, No. 2, pp. 1-8, Dec 2017. ISSN (Print): 2320-7590. SJIF – 5.7

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50. Kannan R, SolaiManohar S, SenthilKumaran M.(ASSP/EEE), "Nominal features-based class specific learning model for fault diagnosis inindustrial applications", Elsevier - Computers & Industrial Engineering , 2018 , Vol. 116, pp: 163-177. Indexed in Thomson reuter IF: 3.15.

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52. Dr.R.Seyezhai(ASSP/EEE), Ms.D.Umarani (AP/EEE), “Analysis and Implementation of PS-PWAM Technique for QuasiZ-Source Multilevel Inverter” Journal of Electrical Engineering and Technology, Volume 13,Issue 2,Page 688-698,March 2018. Indexed in Thomson reuter IF: 0.57.

53. DR.R.Seyezhai, ASSP/EEE &Ms.D.Umarani, AP/EEE, “Reliability Assessment of two-phase Interleaved Boost Converter”, Life Cycle Reliability and safety engineering, Springer, March 2018, ISSN 2520-1352.