

Profile Dr.A.Amudha

Professor and Head
Karpagam Academy of Higher Education,
Karpagam University, Coimbatore
Email:amudha11@gmail.com
Ph: 9443935495



PUBLICATIONS

Paper published in Conferences

1. P. Sivakumar, M.Siva Ramkumar, A. Amudha, K. Balachander, D. Kavitha “A Single Stage Three Phase Inverter Based On Cuk Converter For Pv Application” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 9-13 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
2. S. Nandhini, D. Kavitha, S. Kalaiarasi, A. Amudha, M. Siva Ramkumar “INTELLIGENT POWER TRACKING ALGORITHM USING ANFIS AND ZETA CONVERTER” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 38-45 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
3. S. Senthil Kumar, D. Kavitha, A. Amudha, G. Emayavaramban, M. Siva Ramkumar “ANALYSIS OF NEW NOVELTY MULTILEVEL INVERTER CONFIGURATION WITH BOOST CONVERTERS FOR A PHOTOVOLTAIC SYSTEM WITH MPPT” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 46-57 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
4. R. Shobana, K. Balachander, A. Amudha, G. Emayavaramban, M. Siva Ramkumar ,” PV AND FUEL CELL BASED DYNAMIC VOLTAGE RESTORER FOR LVRT IMPROVEMENT OF DFIGWTS” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 63-71 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
5. P. Srinivasan, K. Balachander, A. Amudha, G. Emayavaramban, M. Siva Ramkumar,” A FUZZY LOGIC APPROACH TO MICROGRID DEMAND RESPONSE IN BOTH OFFLINE AND ONLINE MODE” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 72-82 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
6. R. Veluchamy, K. Balachander, A.Amudha, M. Siva Ramkumar, G. Emayavaramban ,” ANALYSIS AND ENERGY EFFICIENCY OF SMALL-SCALE WIND ENERGY CONVERSION SYSTEM USING ADAPTIVE NETWORK BASED FUZZY INTERFERENCE SYSTEM (ANFIS) OF MAXIMUM POWER POINT TRACKING METHOD” ” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 83-92 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)

7. K. Suresh Kumar, K. Balachander, A. Amudha, M. Siva Ramkumar, D. Kavitha," MULTI CONVERTER UNIFIED POWER QUALITY CONDITIONING (MC-UPQC) FOR VARIOUS LOADS WITH ANN APPROACH TO TWO SOURCE CONCEPT" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 93-103 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
8. V. Jesudoss, K. Balachander, A. Amudha, M. Sivaramkumar, S. Divyapriya, "CASCADE COCKCROFT-WALTON VOLTAGE MULTIPLIER APPLIED TO TRANSFORMERLESS HIGH STEP-UP DC-DC CONVERTER" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 104-109 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
9. S. Vivekanandan, M.Siva Ramkumar, A. Amudha, M.Sivaram Krishan, D. Kavitha," DESIGN AND IMPLEMENTATION OF SERIES ZSOURCE MATRIX CONVERTERS" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 110-115 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
10. Thirugnanaselvi, M.Siva Ramkumar, A. Amudha, M.Sivaram Krishan, K. Balachander," DTC-SVM MANAGEMENT OF INDUCTION MACHINE FED BY 3 LEVEL NPC MATRIX CONVERTOR" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 116-120 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
11. C. Karunamoorthy, A. Amudha, K. Balachander, M. Siva Ramkumar," A PHOTOVOLTAIC GENERATION SYSTEM BASED ON HYBRID MULTILEVEL INVERTER IN ORDER TO REDUCE SWITCHING FOR DC MICRO GRIDS" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 121-131 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
12. C. Chinnusamy, G.Emayavaramban, A. Amudha, K. Balachander, M. Siva Ramkumar, "TRANSIENT STABILITY IMPROVEMENT IN POWER SYSTEM WITH SMES AND BATTERY ENERGY STORAGE SYSTEM" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 132-143 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
13. M. Mohammed Shaheeth, D. Kavitha, A. Amudha, M. Siva Ramkumar, K. Balachander, G. Emayavaramban . "GRID CONNECTED WIND ENERGY CONVERSION SYSTEM WITH UNIFIED POWER QUALITY CONDITIONER (UPQC) BY FUZZY LOGIC" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 156-168 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
14. V. Akiladevi, A. Amudha, K. Balachander, M. Siva Ramkumar, S. Divyapriya, "INTEGRATED DC/DC PARALLEL MAXIMUM POWER POINT TRACKING BASED PHOTOVOLTAIC SYSTEM ARCHITECTURE FOR COMMON DC BUS" International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 169-178 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)

15. K. Kaleeswari, K. Balachander, A. Amudha, M. Siva Ramkumar, D. Kavitha , “ANALYSIS AND PARALLEL OPERATION OF NOVEL BIDIRECTIONAL DC-DC CONVERTER FOR DC MICROGRID” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 190-200 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
16. T. Kalimuthu, K. Balachander, A. Amudha, G. Emayavaramban, M. Siva Ramkumar,” AN EFFICIENT HIGH STEP UP CONVERTER FOR AUTOMOBILE APPLICATIONS USING FUZZY LOGIC CONTROL TECHNIQUE” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 201-208 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
17. N.A. Sankar, K. Balachander, A. Amudha, S. Divyapriya, M. Siva Ramkumar ,” COMPENSATION OF VOLTAGE VARIATIONS IN DISTRIBUTION SYSTEM DURING FAULT CONDITION BY USING SEPARATE ENERGY STORAGE DEVICE BASED DVR” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 209-222 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
18. D. Sivakumar, A. Amudha, K. Balachander, M. Siva Ramkumar ,“ IMPLEMENTATION OF HARMONIC MITIGATION OF GRID CONNECTED MODIFIED MLI FOR VARIABLE-SPEED WIND ENERGY CONVERSION SYSTEM” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 223-230 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
19. D. Babu, A. Amudha, K. Balachander, G. Emayavaramban, M. Siva Ramkumar, “POWER GRID CONNECTED SEMI-Z SOURCE INVERTER SUPPLIED BY PHOTOVOLTAIC AND WIND SYSTEM WITH A NEW MODULATION STRATEGY” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 231-241 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
20. Kalimuthu, M. Siva Ramkumar, A. Amudha, K. Balachander, M. Sivaram Krishnan,” A HIGH GAIN INPUT-PARALLEL OUTPUTSERIES DC/DC CONVERTER WITH DUALCOUPLED-INDUCTORS” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 242-246 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
21. S. Tamil Selvan, M. Siva Ramkumar, A. Amudha, K. Balachander, D.Kavitha, “A DC - DC CONVERTER IN HYBRID SYMMETRICAL VOLTAGE MULTIPLIER CONCEPT” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 247-251 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
22. P. Chitra, M. Siva Ramkumar, A. Amudha, K. Balachander, G. Emayavaramban , “HIGH STEP-UP DC-DC CONVERTER BASED ON THREE-WINDING COUPLED INDUCTOR” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 252-256 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)

23. E. Jaiganesh, G. Emayavaramban, A. Amudha, K. Balachander, D. Kavitha , “MAXIMUM POWER POINT TRACKING STRATEGY FOR A NEW WIND POWER SYSTEM WITH SUPER CAPACITOR CONNECTED PHOTOVOLTAIC POWER GENERATION SYSTEM AND SUPPORTED TO A DISTRIBUTION POWER GRID” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 14-25 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
24. V. Suresh, G. Emayavaramban, A. Amudha, K. Balachander, D. Kavitha , “MODELING, DESIGN AND IMPLEMENTATION OF A POWER CONVERSION SYSTEM FOR WECS BY USING FUZZY BASED MPPT” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 26-37 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
25. G. Sumathi, A. Amudha, K. Balachander, “INTEGRATION OF VARIOUS RENEWABLE ENERGY SYSTEMS WITH BATTERY ENERGY STORAGE SYSTEM USING OPTIMAL ENERGY MANAGEMENT SYSTEM” International Conference on Recent Trends in Computing (ICRTC-2017), held on Dec. 14-15, 2017, at the SRM Institute of Science and Technology , Mathematical and Computational Forestry & Natural-Resource Sciences (MCFNS); Vol 11, No 1: pp 179-189 MCFNS March 30, 2019, ISSN 1946-7664 (E-SCI Indexed)
26. Presented a paper on the title “NEED FOR EXPERIMENTAL LEARNING OF ELECTRICAL ENGINEERING WITH CDIO CONCEPT IN DEVELOPING NATIONS” in 21st ISTE TN Section Annual Convention for Faculty Members of Engineering Colleges-2019 on 29th & 30th March, 2019 at Karpagam Institute of Technology, Coimbatore.
27. Presented a paper on the title “Active Neutral Point Clamped 3 Level Matrix Converter based on Direct Torque Controlled-Space Vector Modulation for Induction Machine” in International Conference on Electrical, Electronics and Communication Engineering on 27th & 28th April, 2018 at St. Peter’s Engineering College.
28. Presented a paper on the title “Series Z-Source Matrix Converters Simulation and Implementation Techniques” in International Conference on Electrical, Electronics and Communication Engineering on 27th & 28th April, 2018 at St. Peter’s Engineering College.
29. Presented a paper on the title “CASCADED COCKCROFT- WALTON VOLTAGE MULTIPLIER APPLIED TO TRANSFORMER LESS HIGH STEP UP DC-DC CONVERTER” in 4th International Conference on Electrical, Electronics, and Instrumentation & Computer Communication “on 19th January, 2018 at Karpagam College of Engineering.
30. Presented a paper on the title “DESIGN AND IMPLEMENTATION OF SERIES Z- SOURCE MATRIX CONVERTER” in 4th International Conference on Electrical, Electronics, and Instrumentation & Computer Communication “on 19th January, 2018 at Karpagam College of Engineering.
31. Presented a paper on the title “A SINGLE STAGE THREE PHASE INVERTER BASED ON CUK CONVERTER FOR PV APPLICATION” in 4th International Conference on Electrical, Electronics, and Instrumentation & Computer Communication “on 19th January, 2018 at Karpagam College of Engineering.
32. Presented a paper on the title “HIGH STEP UP DC-DC CONVERTER BASED ON THREE WINDING COUPLED INDUCTOR” in 4th International Conference on Electrical, Electronics, and Instrumentation & Computer Communication “on 19th January, 2018 at Karpagam College of Engineering.
33. Presented a paper on the title “Design and Implementation of A High Gain Input Parallel Output Series DC-DC Converter with Dual Coupled Inductor ” in 4th International Conference on Electrical, Electronics, and Instrumentation & Computer Communication “on 19th January, 2018 at Karpagam College. of Engineering.

34. Presented a paper on the title "PERTURB AND OBSERVE BASED PHOTOVOLTAIC POWER GENERATION SYSTEM FOR OFF-GRID USING SEPIC CONVERTER" in 2nd International conference on Renewable Energy and Sustainable Environment on July'17 held at Dr.Mahalingam College of Engineering and Technology.
35. Presented a paper on the title "FREQUENCY DEVIATION CONTROL IN HYBRID RENEWABLE ENERGY SYSTEM USING FC-UC" in 3rd International Conference on "Electrical, Electronics, Instrumentation & Computer Communication on 15th Dec 2016 held at Karpagam College of Engineering
36. Presented a paper on the title" Resonant Power Converter Using GA For Pv Applications" in 4th International Conference on New Frontiers of Engineering, Science, Management and Humanities (ICNFESMH-2017)on SEP'17 held at The Institution of Electronics and Telecommunication Engineers (IETE,Hyderabad)
37. Presented a paper titled "PERTURB AND OBSERVE BASED PHOTOVOTAIC POWER GENERATION SYSTEM FOR OFF- GRID USING SEPIC CONVERTER" in the CSIR,DRDO,DST-SERB sponsored 2nd International Conference on Renewable Energy and Sustainable Environment on 20-22, July,2017 at Dr.Mahalingam College of Engineering & Technology, Coimbatore.
38. Dr.A.Amudha, presented a paper titled "Single-Objective Optimization of Profit and Emission under Deregulated Environment" in the International Conference on Smart Grid Technologies on 6th- 8th August,2015 at Amrita School of Engineering, Coimbatore.
39. Dr.A.Amudha, published a paper titled "Optimal Power Flow using PSAT" " in the International Conference onAdvaces in Engineering Science and Management,Agra 8th November 2015.ISBN:978-81-931974-111-118@T R publication
40. Dr.A.Amudha, presented a paper titled "Enhancement of Available Transfer Capability Using FACTS Controller" in the International Conference on Innovative in Information Embedded and Communication systems on 13th and 14th March 2014 at Karpagam College of Engineering.
41. Dr.A.Amudha, presented a paper titled "Improvement of Load ability and Available Transfer Capability using FACTS Controller" in the National Conference on Emerging Trends in Electronics, Instrumentation, Automation and Control on 19th March 2014 at Karpagam College of Engineering.
42. Soumyalatha. B, Dr.A.Amudha presented a paper titled "Optimal placement of UPFC in the power system for minimizing losses" in International conference on knowledge collaboration Engineering on 24th and 25th January 2014, kathir college of engineering, Coimbatore.
43. Soumyalatha. B, Dr.A.Amudha presented a paper titled "Optimal placement of UPFC in the power system" National conference on Innovative Developments in Engineering and Automation IDEA 21st march 2014- SKCET, Coimbatore.
44. Dr.A.AmudhaPresented a paper titled "Predetermination of Harmonics using Dual Phase analysis" in the International conference on Advancements in Automation and Control Engineering held at Syed Ammal Engineering College, Ramanathapuram on 11th and 12th April 2014.

Papers Published in Journals:

1. Mary P. Varghese and Dr.A.Amudha, "Enhancing the efficiency of wind power using Hybrid Fire Fly & Genetic Algorithm - Economic Load Dispatch Model", (In Press), Current Signal Transduction Therapy Journal, Bentham Science Publishers doi10.2174/1574362413666180223125127. (SCIE and Scopus Indexed)
2. P.Nagaveni, M.Siva RamKumar, M.Nivetha, A.Amudha, G.Emayavaramban, "Electrical Energy Audit –An Experience in a Small Scale Textile Mill" International Journal of Innovative

Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, Page 4102-4107.

3. Dr.A.Amudha and Mary P. Varghese, "A Hybrid CS-ABC optimization technique for Solving Unit Commitment Problem with Wind Power Uncertainty" accepted for publication in International Journal of Electrical Engineering Education. Manchester University press, Sage Publishers. (Accepted for Publication, SCIE and Scopus Indexed)
4. Mary P. Varghese and Dr.A.Amudha, "Artificial Bee Colony and Cuckoo Search Algorithm for Cost Estimation with Wind Power Energy". Journal: *International Journal of Simulation: Systems, Science and Technology IJSSST V19* Published: Feb 3, 2019 DOI: 10.5013/IJSSST.a.19.06.18. (Scopus Indexed)
5. Mary P. Varghese and Dr.A.Amudha, "Hybrid Harmony Search Algorithm & Fuzzy Logic for Solving Unit Commitment Problem with Wind Power Uncertainty", International Journal of Engineering & Technology UAE (Science Publication Corporation) ISSN: 2227-524X, Volume 7 Number 1.9 Pages 75-83. (Scopus Indexed)
6. Charles Stephen, Dr.A. Amudha, K. Balachander, .M. Siva Ramkumar, G. Emayavaramban, IR.V. Manoor "Direct Torque Control of Induction Motor Using SVM Techniques" International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-1S4 Page No 196-202.2019 (Scopus Indexed)
7. G. Suresh, A.Amudha, M. Siva Ramkumar, G. Emayavaramban, IR.V.Manoor "Bidding Strategy of Electricity Market Considering Network Constraint in New Electricity Improvement Environment" International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-1S4 Page No 230-234.2019(Scopus Indexed)
8. N. Seethalakshmi, A. Amudha, S. Divyapriya, G. Emayavaramban, M. Siva Ramkumar, IR.V. Mohamed Mansoor "Voltage Frequency Controller with Hybrid Energy Storage System for PMSG Based Wind Energy Conversion System" International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-1S4 Page No 219-229. 2019(Scopus Indexed)
9. N. Saravanakumar, A. Amudha, G. Emayavaramban, M. Siva Ramkumar, S. Divyapriya "Stability Analysis of Grid Integration of Photovoltaic Systems Using Partial Power Converters" International Journal of Recent Technology and Engineering (IJRTE) , ISSN: 2277-3878, Volume-8, Issue-1S4 Page No 203-210. 2019(Scopus Indexed)
10. Muthukumar.K, Amudha.A,Gomathy.V "Hybrid Topology for Feature Extraction and Classification of Vision Based Hand Gesture Recognition" International Journal of Innovative Technology and Exploring Engineering (IJITEE). ISSN: 2278-3075, Volume-8 Issue-8. 2019. (Scopus Indexed).
11. G. Krishnan, M. Siva Ramkumar, A. Amudha, G. Emayavaramban, S. Divyapriya, D. Kavitha, M. Sivaram Krishnan "Control of A Doubly Fed Induction Generator for Wind Energy Conversion System Using Matrix Converter with SVPWM Technique" International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1S4 Page No 229 - 219.2019(Scopus Indexed).
12. N. Eswaramoorthy, M. Siva Ramkumar, G. Emayavaramban, A. Amudha, S. Divyapriya, M. Sivaram Krishnan, D. Kavitha "A Control Strategy for A Variable Speed Wind Turbine with A Permanent Magnet Synchronous Generator Using Matrix Converter with SVPWM, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1S4 Page No 178-186.2019. (Scopus Indexed).
13. P. Jeyalakshmi, M. Siva Ramkumar, IR.V. Mansoor, A. Amudha, G. Emayavaramban, D. Kavitha, M. Sivaram Krishnan "Application of Frequency based Matrix Converter in Wind Energy Conversion System Employing Synchronous Generator Using SVPWM Method" International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1S4. Page No 187-195. 2019. (Scopus Indexed).

14. N. Thiyaagarajan, M. Siva Ramkumar, A. Amudha, G. Emayavaramban, M. Sivaram Krishnan, D. Kavitha "SVPWM based Control of SCIG-Matrix Converter for Wind Energy Power Conversion System" International Journal of Recent Technology and Engineering (IJRTE) , ISSN: 2277-3878, Volume-8, Issue-1S4 Page No 211 – 218. 2019. (Scopus Indexed).
15. V. Jayaprakash, S. Divyapriya, A. Amudha, G. Emayavaramban, M. Siva Ramkumar "Nano - Grid Smart Home With Plug-in Electric Vehicle using a Hybrid Solar-Battery Power Source , International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1S5, June 2019, Page No 246 -248. 2019. (Scopus Indexed).
16. K. T. Chandrasekaran, S.Divyapriya, A.amudha, M.Siva Ramkumar, G.Emayavaramban "Modeling and Control of Micro Grid Based Low Price Residential Home to Grid Power Management System" International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1S5, June 2019, Page No 261-265. 2019. (Scopus Indexed).
17. N.Pandiarajan,G.Emayavaramban, A.Amudha, M.Siva Ramkumar, IR.V.Mohamed Mansoor, K.Balachander, S.Divyapriya,M..Sivaram Krishnan "Design and Electric Spring for Power Quality Improvement in Pv-Based Dc Grid" International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1S5, June 2019, Page No 242 to 245. 2019. (Scopus Indexed).
18. R.Veluchamy,Dr.K.Balachander,Dr.A.Amudha,M.SivaRamkumar,Dr.G.Emayavaramban "Analysis and Energy Efficiency of Small Scale Wind Energy Conversion System Using Adaptive Network based Fuzzy Interference System (ANFIS) of Maximum Power Point Tracking Method" Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 05-Special Issue,Page No-1289-1301. 2019. (Scopus Indexed).
19. S.SenthilKumar,M.SivaRamkumar,Dr.A.Amudha,Dr.K.Balachander,Dr.G.Emayavaramaban Cascade Cockcroft-Walton Voltage Multiplier Applied to Transformer less High Step-Up DC-DC Converter Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 05-Special Issue,Page No-1082-1088. 2019. (Scopus Indexed).
20. M.SivaRamkumar,Dr.A.Amudha,M.SivaramKrishnan,D.kavitha,S.Sriragavi "directional Isolated DC-DC Converter for Hybrid Electric Vehicle Charging, International Journal of Scientific Research and Engineering Development, Vol-2 Issue Page No-278-286. 2019. (Scopus Indexed).
21. Dr.M.SivaRamkumar,Dr.A. Amudha,M.Sivaram Krishnan "Design And Simulation of Zeta Converter With ZVZCS Technique, Journal of Engineering and Applied Sciences, 14 (9): ISSN: 1816-949X Page No 2764,2774. 2019. (Scopus Indexed).
22. Dr.K.Balachander,A. Amudha, "Energy Economy Recommendations in Textile Mill, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958. Volume-8 Issue-4, Page No 168 to 176. 2019. (Scopus Indexed).
23. G.Ravivarman,zr.A. Amudha, "A Single Stage Zvs Pfc Converter With Minimized Losses And High Power Factor" Jour of Adv Research in Dynamical & Control Systems, Vol. 11, 03-Special Issue. 2019. (Scopus Indexed).
24. Dr.K.Balachander,Chanth Gowrish C,Dr. A. Amudha "Modified CUK Converter for Hybrid Electric Vehicle, Caribbean Journal of Science, Volume 53, ISSUE –Page No-651-658. 2019. (Scopus Indexed).
25. S. Nandhini, D. Kavitha, S. Kalaiarasi, Dr.A. Amudha and M. Siva Ramkumar "Intelligent Power Tracking Algorithm Using ANFIS and ZETA Converter" Journal of Advanced Research in Dynamical and Control Systems, 10(5), pp 1212-1221 (Scopus Indexed)
26. V. Akiladevi, Dr. A. Amudha, Dr.K. Balachander, S. Divyapriya, "Integrated DC/DC Parallel Maximum Power Point Tracking based Photovoltaic System Architecture for Common DC Bus", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp. 831-843.
27. SURESH. S, K. BALACHANDER & A. AMUDHA, "Design Of Transformer Less Photovoltaic HERIC Inverter With H - SPWM Method" International Journal of Mechanical and Production

Engineering Research and Development (IJMPERD), ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 8, Special Issue 4, Dec 2018, 104-113

28. S. Ananthanarayanan, Dr. A. Amudha, Dr. K. Balachander, D. Kavitha, "Design and Analysis of "Power Quality Improvement in Distribution Side Using PCC Technique with Fuzzy Logic Control", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp. 844-852.
29. T. Kalimuthu, M. Siva Ramkumar, Dr. A. Amudha, Dr. K. Balachander, M. Sivaram Krishnan, "A High Gain Input-Parallel Output-Series Dc/Dc Converter with Dual Coupled Inductors", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp. 818-824
30. D. Babu, Dr. A. Amudha, Dr. K. Balachander, Dr. G. Emayavaramban, M. Siva Ramkumar, "Power Grid Connected Semi-Z Source Inverter Supplied by Photovoltaic and Wind System with a New Modulation Strategy", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp. 853-866.
31. C. Chinnusamy, Dr. G. Emayavaramban, Dr. A. Amudha, Dr. K. Balachander, M. Siva Ramkumar, "Transient Stability Improvement in Power System with SMES and Battery Energy Storage System", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp.900-914.
32. G. Sumathi, Dr. A. Amudha, Dr. K. Balachander, "Integration of Various Renewable Energy Systems with Battery Energy Storage System using Optimal Energy Management System", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp. 915-927.
33. K. Kaleeswari, Dr. K. Balachander, Dr. A. Amudha, M. Siva Ramkumar, D. Kavitha, "Analysis and Parallel Operation of Novel Bidirectional DC-DC Converter for DC Micro Grid", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp. 928-940.
34. C. Karunamoorthy, Dr. A. Amudha, Dr.K. Balachander, M. Siva Ramkumar, "A Photovoltaic Generation System Based on Hybrid Multilevel Inverter in Order to Reduce Switching for DC Micro Grids", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018pp.951-965.
35. M. Mohammed Shaheeth, D. Kavitha, Dr. A. Amudha, M. Siva Ramkumar, Dr. K. Balachander, Dr.G. Emayavaramban, "Grid Connected Wind Energy Conversion System with Unified Power Quality Conditioner (UPQC) by Fuzzy Logic", Journal of Adv Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018, pp.982-996.
36. K. Balachander, Dr.A. Amudha," Designing and Implementation of a Hardware Model of Power Rationing using Lab View Instrumentation System", International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, Issue 3, Jun 2018, pp. 977-984. (Scopus Indexed)
37. K. Balachander, Dr.A. Amudha," Designing and Implementation of a Hardware Model of Power Rationing using Lab View Instrumentation System", International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, Issue 3, Jun 2018, pp. 977-984. (Scopus Indexed)
38. S. Senthil Kumar, D. Kavitha, Dr.A. Amudha, Dr.G. Emayavaramban and M. Siva Ramkumar "Analysis of New Novelty Multilevel Inverter Configuration with Boost Converters for a Photovoltaic System with MPPT" Journal of Advanced Research in Dynamical and Control Systems, 10(5), pp 1232-1244 (Scopus Indexed)
39. R. Shobana, Dr.K. Balachander, Dr.A. Amudha, Dr.G. Emayavaramban and M. Siva Ramkumar "PV and Fuel Cell based Dynamic Voltage Restorer for LVRT Improvement of DFIGWTS" Journal of Advanced Research in Dynamical and Control Systems, 10(5), pp 1245-1255 (Scopus Indexed)

40. P. Srinivasan, Dr.K. Balachander, Dr.A. Amudha, Dr.G. Emayavaramban and M. Siva Ramkumar "A Fuzzy Logic Approach to Microgrid Demand Response in both Offline and Online Mode" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5), pp 1262-1275 (Scopus Indexed)
41. K. Suresh Kumar, Dr.K. Balachander, Dr.A. Amudha, M. Siva Ramkumar and D. Kavitha "Multi Converter Unified Power Quality Conditioning (MC-UPQC) for various Loads with ANN Approach to Two Source Concept" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5), pp 1276-1288 (Scopus Indexed).
42. R. Veluchamy, Dr.K. Balachander, Dr.A. Amudha, M. Siva Ramkumar and Dr.G. Emayavaramban , "Analysis and Energy Efficiency of Small-Scale Wind Energy Conversion System Using Adaptive Network based Fuzzy Interference System (ANFIS) of Maximum Power Point Tracking Method" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5), pp 1289-1301 (Scopus Indexed)
43. S. Senthil Kumar, M. Siva Ramkumar, Dr.A. Amudha, Dr.K. Balachander Dr.G. Emayavaramban "Cascade Cockcroft-Walton Voltage Multiplier Applied to Transformer less High Step-Up DC-DC Converter" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5), pp 1082-1088 (Scopus Indexed).
44. E. Jaiganesh, Dr. G.Emayavaramban, , Dr. A. Amudha, Dr. K. Balachander, D. Kavitha, "Maximum Power Point Tracking Strategy for a New Wind Power System with Super capacitor Connected Photovoltaic Power Generation System and supported to a Distribution Power Grid", *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 10, 05-Special Issue, 2018 1165-1178 (Scopus Indexed) .
45. V. Suresh, Dr. G. Emayavaramban, Dr. A. Amudha, Dr. K. Balachander, D. Kavitha, "Modeling, Design and Implementation of a Power Conversion System for WECS by Using Fuzzy Based MPPT", *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 10, 05-Special Issue, 2018, pp. 1198-1211. (Scopus Indexed)
46. P. Chitra, M.Siva Ramkumar,Dr.A. Amudha, Dr.K.Balachander, Dr.G. Emayavaramban "High Step-Up DC-DC Converter based on Three-Winding Coupled Inductor" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5), pp 1089-1094 (Scopus Indexed).
47. S.Vivekanandan, M. Siva Ramkumar, Dr.A.Amudha, M. Sivaram Krishan, D. Kavitha "Design and Implementation of Series Z-Source Matrix Converters" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5) , pp 1095-1102 (Scopus Indexed).
48. Dr. A. Amudha, Dr. K. Balachander, M. Siva Ramkumar, "Power Conservation and Control in Base Transceiver Station Towers using SCADA", *International Journal of Scientific Research and Review*, Vol. 6 (12), pp. 149-156. (UGC Indexed)
49. Dr. K. Balachander, Dr A Amudha, "PLC Based Control of Fuel Oil Pump Houses in Thermal Power Station", *International Journal of Scientific Research and Review*, Vol. 6 (11), pp. 6-14.
50. A. Thirugnanaselvi, M. Siva Ramkumar, Dr.A. Amudha, M. Sivaram Krishan,Dr.K. Balachander "DTC-SVM Management of Induction Machine Fed by 3 Level NPC Matrix Convertor" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5) , pp 1103-1108 (Scopus Indexed).
51. V. Jesudoss, Dr.K. Balachander, Dr.A. Amudha, M. Siva Ramkumar, S. Divyapriya "Reactive Power Compensation in a Three Phase Four Wire Distribution System Using DSTSTCOM with Fuzzy Logic Controller" *Journal of Advanced Research in Dynamical and Control Systems*, 10(5) , pp 1109-1127 (Scopus Indexed).
52. P. Sivakumar, M. Siva Ramkumar, Dr.A. Amudha, Dr. K. Balachander, D. Kavitha "A Single Stage Three Phase Inverter based on Cuk Converter for PV Application" *Journal of Advanced Research in Dynamical and Control Systems*, 10(8) , pp 879-885 (Scopus Indexed)
53. M.Sivaram Krishnan, Dr.A.Amudha, M.Siva Ramkumar, S.Sriragavi "Active Neutral Point Clamped 3 Level Matrix Converter based on Direct Torque Controlled-Space Vector Modulation

- for Induction Machine” International_Journal of Electronics, Electrical and Computational System, 7(4) , pp 612-620 (UGC Indexed)
54. M.Sivaram Krishnan, Dr.A.Amudha, M.Siva Ramkumar, S.Sriragavi “Series Z-Source Matrix Converters Simulation and Implementation Techniques” International Journal of Electronics, Electrical and Computational System, 7(4), pp 621-630 (UGC Indexed)
 55. M.Sivaram Krishnan, Dr.A.Amudha, M.Siva Ramkumar” Execution Examination Of A Three Phase Ac To Three Phase Ac Matrix Converter Using Distinctive Transporter Based Exchanging Algorithms” International Journal of Pure and Applied Mathematics, 118(11), pp 609-617 (Scopus Indexed)
 56. M.Siva Ramkumar, Dr.A.Amudha, M.Sivaram Krishan, S.Sriragavi . “MER Based Bi-Directional Three Winding Dc- Dc Converters with ZVS” International Journal of Scientific Research and Review (IJSRR) 7(1),pp 9-17.
 57. Dr.A.Amudha, M.Siva Ramkumar, M.,Sivaram Krishnan “Perturb And Observe Based Photovoltaic Power Generation System For Off-Grid Using Sepic Converter” International Journal of Pure and Applied Mathematics (IJPAM) Volume no 114 Issue no 7 pp 619-627 .
 58. M.Siva Ramkumar, M.Sivaram Krishnan, Dr.A.Amudha “Resonant Power Converter Using GA For Pv Applications” International Journal Of Electronics, Electrical And Computational System (IJECS) Volume no 6 Issue no 9 pp 239-245.
 59. K.R. Jayakrishna Dr.A. Amudha K. Balachander and M. Siva Ramkumar “Electric Vehicle Battery Charging Station Using Dual Converter Control” International journal of Control Theory and Applications, Volume 10, (2017) Issue 38 , pp.195-203.
 60. R. Ravichandran K. Balachander Dr.A. Amudha M. Siva Ramkumar and S. Kuppusamy “Estimation of Electrical Parameter Using Fuzzy Logic Controller Based Induction Motor” International journal of Control Theory and Applications, Volume 10, (2017) Issue 38 , pp.205 - 212.
 61. R. Yuvaraj K. Balachander Dr.A. Amudha S. Kuppusamy and M. Siva Ramkumar “Modified Interleaved Digital Power Factor Correction Based on The Sliding-Mode Approach” International journal of Control Theory and Applications, Volume 10, (2017) Issue 38 , pp.225-235.
 62. V. Chandra Prabha Dr.A. Amudha K. Balachander and M. Siva Ramkumar “MPPT Control Algorithm for Grid Integration of Variable Speed Wind Energy Conversion System” International journal of Control Theory and Applications, Volume 10, (2017) Issue 38 , pp.237-246.
 63. M. Subramanian M. Siva Ramkumar Dr.A. Amudha K. Balachander and S. Kuppusamy “Power Quality Improvement in Low Voltage Transmission System Using Static Compensator” International journal of Control Theory and Applications, Volume 10, (2017) Issue 38 , pp.247-267.
 64. M.R.Latha S. Kuppusamy Dr.A. Amudha K. Balachander and M. Siva Ramkumar “An Efficient Single Stage Converter Based PV-DVR for Improving Voltage Quality” International journal of Control Theory and Applications, Volume 10, (2017) Issue 38 , pp.177-193.
 65. D. Kavitha,. A. Dr Amudha, S. Divyapriya, “Design of a Controller for Regenerative Braking Using BLDC Motor Applicable for Electric Vehicle” International Journal of Electronics, Electrical and Computational System, Volume 6, Issue 9, pp.245-252.
 66. Shashidhar Kasthala,GKD Prasanna Venkatesan,Amudha. A “MIMO PLC Channel Modeling on Indian Residential Networks” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 14 (2017) pp. 4145-4151.
 67. Shashidhar Kasthala,GKD Prasanna Venkatesan,Amudha. A “Design and Development of protective coupling interface for characterizing the residential Broadband PLC channel” Journal of Advanced Research in Dynamical and control systems ,1943-023X,Volume 9,SI 2 (2017) pp. 1-15.

68. Mary p.Varghese ,Amudha. A “A Hybrid Method for solving Unit Commitment Problem with wind power uncertainty” International journal of Control Theory and Applications, Volume 10, (2017) pp. 79-98.
69. M. Sivaram Krishnan, M. Siva Ramkumar, and A. Amudha, “Frequency Deviation Control in Hybrid Renewable Energy System using FC-UC” International journal of Control Theory and Applications, Volume 10, Number 2 (2017) pp. 333-344.
70. Dr.Amudha. A “Home Automation using IoT” International Journal of Electronics Research, Vol.09 (06), June 2017, pp939-944.
71. S.Selvaperumal, P.Nedumalpugazhenth, Dr.Amudha. “Aclosed loop performance investigation of various controllers based chopper fed DC drive in marine Applications” Indian Journal of Marine Geo Sciences Vol.46 (05), May 2017, pp1044-1055.
72. Balachander. K, Dr.Amudha. A, “Design and Hardware Implementation of Interleaved Boost Converter Using Sliding Mode Approach” International Journal of Electronics Engineering Research. Volume 9, Number 5 (2017) pp. 745-750.
73. R. Gayathri and Dr.A. Amudha “Solar Powered Traffic Control System Based on Traffic density with Emergency Vehicle Alert”, Middle-East Journal of Scientific Research 24 (2): 234-238, 2016
74. G. Emayavaramban, Dr.A. Amudha, “Identifying Hand Gestures Using SEMG For Human Machine Interaction”, ARPN Journal of Engineering and Applied Sciences, VOL. 11, NO. 21, 12777-12785, 2016.
75. G. Emayavaramban, A. Amudha, “sEMG based Classification of Hand Gestures using Artificial Neural Network”, International Journal of Science and Technology, 9 (35) & 1-10, 2016.
76. G. Emayavaramban, A. Amudha “Recognition of sEMG for Prosthetic Control using Static and Dynamic Neural Network”, IJCTA, International Science Press, 2(6) & 1-11, 2016
77. Samson Raja Simson , SundarRavichandran , AmudhaAlagarsamy, NithiyananthanKannan, Virtual State Estimation Calculator Model for Three Phase Power System Network, Journal of Energy and Power Engineering, 10 (2016), 497-503.
78. M Siva Ram Kumar, Dr. A Amudha , Optimization for a Novel Single Switch Resonant Power Converter using GA to improve MPPT efficiency of PV Applications, International Journal of Applied Engineering Research 11 (9), pp 6485-6488 2016.
79. S. Samson Raja , R.Sundar , Dr. A Amudha , DR K.Nithiyananthan, “Unit Commitment Calculator Model for Three phase Power System Network” International Journal of Power and Renewable Energy Systems (IJPRES) Volume 3 Issue 2, 2016.
80. A. Theivanayake and Dr.A .Amudha “Reduction of Harmonis by Detuning of Capacitors”, Middle-East Journal of Scientific Research 24 (3): 681-694, 2016.
81. S. Samson Raja , R.Sundar , Dr. A Amudha , DR K.Nithiyananthan, “Virtual State Estimation Calculator Model for Three Phase power system Network” Journal of Energy Fand Power Engineering, Volume 10, 497-503, 2016
82. Amudha. A., Vijayalakshmi. V. J & Sugumaran. G. (2015). “Single-Objective Optimization of Profit and Emission under Deregulated Environment”. ScienceDirect, *Procedia Technology*, 21, 400 – 405.
83. D.Manoharan, Dr.A.Amudha “Condition Monitoring And Life Extension Of EHV Transformer” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.55 (2015)
84. D.Manoharan, Dr.A.Amudha, “A Novel Optimization of stresses acting and failure rates with power transformer” International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, Number 3 (2015) pp. 6233-6240.
85. V.J.Vijayalakshmi, Dr.C.S.Ravichandran, A.Amudha "Dual Phase Analysis based Linear Regression Trained Neural Network for Selected harmonic Elimination in a Multilevel Inverter " International journal of Applied Engineering Research, 2015, 10(3):6651-6658

86. V.J.Vijayalakshmi, Dr.C.S.Ravichandran,A.Amudha “SHE in multilevel inverters by dual Phase Analysis” in Australian Journal of Basic and Applied sciences. 8(18), December 2014, pp 292-298.
87. Dr.A.Amudha“Enhancement of Available Transfer Capability using FACTS controller” in International journal of Applied Mechanics and Materials Vol. 573 (2014) pp 340-345.
88. V.J.Vijayalakshmi, Dr.C.S.Ravichandran, Dr.A.Amudha “Harmonic Elimination In Multilevel Inverters For Solar Applications Using Dual Phase Analysis Based Neural Network” in the International journal of Theoretical and Applied Information Technology Vol 68.No(2) pp 287-293
89. V.J.Vijayalakshmi, Dr.C.S.Ravichandran, Dr.A.Amudha “Predetermination of Higher Order Harmonics by Dual Phase Analysis” in International journal of Applied Mechanics and Materials Vol. 573 (2014) pp 13-18.