Dr. A. Amudha, M.E, PhD

Professor & HOD/EEE

Karpagam Academy of Higher Education, Coimbatore.

Publication:s

- M. Sivaramkrishnan, Dr. A. Amudha, Dr. M. Siva Ramkumar "Space Vector Technique for the DirectThree-Level Matrix Converter" in Test Engineering and Management, 83 March April 2020 pp: 2342-2353.
- Dr.A. Amudha, Dr.M. Siva Ramkumar "Smart Time Table using Arduino with Biometirc Attendance System" in Test Engineering and Management, 83 March April 2020 pp: 2561-2570
- Thiyagarajan .k, Dr. M. Siva Ramkumar, Dr. A. Amudha, Dr. G. Emayavaramban, Dr. Viyathukattuva, S. Divyapriya, M. Sivaram Krishnan, Kavitha D "Simulation Study and Implementation of Non-Direct Current Controlled Shunt Active Power Filter for Power Quality Enhancement" in Test Engineering and Management, 83 March April 2020 pp: 2271-2277
- 4. Sivashanmugam R, Dr.M. Siva Ramkumar, A. Amudha, G. Emayavaramban, Viyathukattuva, P. Nagaveni, M. Sivaram Krishnan, Kavitha D "Development of Hybrid Controller for Load Frequency Control of Hydro Thermal Power System" in Test Engineering and Management, 83 March April 2020 pp: 2585-2594
- Mohideen Abdul Kadar, Dr. A. Amudha, Dr. K. Balachander, Dr. G. Emayavaramban, Dr. Viyathukattuva, Dr. M. Siva Ramkumar, P. Nagaveni "Improved Performance of Single-Phase Seven-Level Grid-Connected Inverter for PV System" in Test Engineering and Management, 83 March April 2020 pp: 2278-2283
- 6. J. R. Abilash, Dr. A. Amudha, Dr. M. Siva Ramkumar, Dr. G. Emayavaramban, Dr. Viyathukattuva, P. Nagaveni "A Inductor Average Current Mode Controller Plus Proportional Integral Controller for a Bi-Directional AC-DC Power Converter with Power Factor Correction for DC Micro Grid" in Test Engineering and Management, 83 March April 2020 pp: 2529-2544
- 7. M. Sivaramkrishnan, Dr.A. Amudha and Dr.M. Siva Ramkumar "Modulation Techniques of the Matrix Converter Using RSV" in Journal of Advanced Research in Dynamical and Control Systems, 11(12) pp: 1041-1053
- 8. G. Boopathy, Dr.M. Siva Ramkumar, Dr.A. Amudha, Dr. Viyathukattuva, Dr.G. Emayavaramban, P. Nagaveni, S. Divyapriya and M. Sivaram Krishnan, "Performance Evaluation of Three Phase Shunt Active Power Filter in Power System Using Non-Linear

- Controller" in Journal of Advanced Research in Dynamical and Control Systems, 11(12) pp: 1193-1204
- 9. S. Srinivasa Sadagopan, Dr.A. Amudha, Dr.M. Siva Ramkumar, Dr. Viyathukattuva, Dr.G. Emayavaramban, P. Nagaveni and S. Divyapriya, "Modeling, Simulation and Implementation of Dual Loop Controller for Super Lift LUO Converter in DC Micro Grid Application" in Journal of Advanced Research in Dynamical and Control Systems, 11(12) pp: 1025-1040
- 10. S.N. Senthil Kumar, Dr. Viyathukattuva, Dr.A. Amudha, Dr.G. Emayavaramban, Dr.M. Siva Ramkumar, P. Nagaveni and S. Divyapriya, "Performance Evaluation of Modeling and Simulation of Higher Pulse Ac-Dc Converters for Improved Power Quality" in Journal of Advanced Research in Dynamical and Control Systems, 11(12) pp: 1054-1074 P.
- 11. Nagaveni, V. Saravanakuma, Dr.A. Amudha, N. Prasanna, Dr.M. Siva ramkumar, M. Nivetha and Dr.G. Emayavaramban, "Power Quality Audit- An Experience in An Leading Engineering Industry" in Journal of Advanced Research in Dynamical and Control Systems, 11(12) pp: 1075-1085
- 12. P. Krishnan, Dr.M.A.M.M. Viyathukattuva, Dr.A. Amudha, Dr.M. Siva Ramkumar, Dr.G. Emayavaramban and P. Nagaveni, "MATLAB/Simulink Analysis and Implementation of Fault Identification of EHV Lines Using Wavelet Transform based FLC" in Journal of Advanced Research in Dynamical and Control Systems, 11(12) pp: 1181-1192.
- 13. A. Srinath, Dr. Viyathukattuva, Dr.A. Amudha, Dr.M. Siva Ramkumar, Dr.G. Emayavaramban and S. Divyapriya, "Design of FLC plus Proportional Controller for KY Positive Output Boost Converter" in Journal of Advanced Research in Dynamical and Control Systems, 11(12) pp: 1214-1226
- 14. B. Lalitha, S. Divyapriya, Dr.A. Amudha, Dr.G. Emayavaramban, Dr. Viyathukattuva, Dr.M. Siva Ramkumar and M. Nivetha, "Design, Analysis and Application of Dynamic Wireless Power Transfer Technique at High Switching Frequency for a Electric Vehicle Battery Chargers" in International Journal of Psychosocial Rehabilitation, 23(4) pp: 567-581
- 15. S. Mohanraj, S. Divyapriya*, Dr.A. Amudha, Dr.G. Emayavaramban, Dr. Viyathukattuva and Dr.M. Siva Ramkumar, "Technical and Economical Analysis of Power Management System for Electric and Hydrogen Vehicles Charging Station Using Solar Powered, Hydrogen and Fuel Cell Technology" in International Journal of Psychosocial Rehabilitation, 23(4) pp: 582-591
- 16. P.Senthilkumar, Dr.G.Emayavaramban, Dr.A.Amudha, Dr.M. Siva Ramkumar, Dr. Viyathukattuva, P. Nagaveni and M. Nivetha "Hybrid based Small Wind Generator with Boost Converter System" in International Journal of Psychosocial Rehabilitation, 23(4) pp: 605-615
- 17. S.P. Sivakumar, Dr.G. Emayavaramban*, Dr.A.Amudha, Dr.M. Siva Ramkumar, Dr. Viyathukattuva and S. Divyapriya, "Isolated Current-Fed Ac to Dc with Sepic Converter for

- Electric Vehicle Applications in International Journal of Psychosocial Rehabilitation, 23(4) pp: 616-626
- 18. S. Srisanthosh Kumar, Dr.G. Emayavaramban*, Dr.A.Amudha, Dr.M. Siva Ramkumar, Dr. Viyathukattuva and S. Divyapriya, "Single Power-Conversion Ac–Dc Converter with High Power Factor Based On ZVZCS for Dc Drive Applications" in International Journal of Psychosocial Rehabilitation, 23(4) pp: 627-638
- 19. G. Emayavaramban, A. Amudha*, Rajendran T., M. Sivaramkumar, K. Balachandar, T. Ramesh. "Identifying User Suitability in sEMG Based Hand Prosthesis Using Neural Networks" in Current Signal Transduction Therapy , (WoS &) DOI: 10.2174/1574362413666180604100542
- 20. Viyathukattuva M.A.M.M, Amudha A, M.Siva Ramkumar, G.Emayavaramban "Relation between Solar PV Power Generation, Inverter Rating and THD" International Journal of Engineering and Advanced Technology 9(1) pp 4570-4575
- 21. 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, 8(10) pp 4102-4107
- N. Eswaramoorthy, Dr.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, 8(1S4) pp 178-186
- P. Jeyalakshmi, Dr.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, 8(1S4) pp 187-195
- 24. Charles Stephen, .A. Amudha, K. Balachander, .Dr.M. Siva Ramkumar, G. Emayavaramban, IR.V. Manoor, "Direct Torque Control of Induction Motor Using SVM Techniques" International Journal of Recent Technology and Engineering, 8(1S5) pp 196-202
- N. Saravanakumar, A. Amudha, G. Emayavaramban, Dr.M. Siva Ramkumar, S. Divyapriya, "Stability Analysis of Grid Integration of Photovoltaic Systems Using Partial Power Converters" International Journal of Recent Technology and Engineering, 8(1S5) pp 203-210
- 26. S.Divyapriya, K.T.Chandrasekaran, A.Amudha, Dr.M.Siva Ramkumar, G.Emayavaramban, "Low Cost Residential Micro Grid System based Home to Grid Backup Power Management" International Journal of Recent Technology and Engineering, 8(1S5) pp 303-307
- N. Thiyaagarajan, Dr.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, 8(1S5) pp 211-218

- N. Seethalakshmi, A. Amudha, S. Divyapriya, G. Emayavaramban, Dr.M. Siva Ramkumar, IR.V. Mohamed Mansoo, "Voltage Frequency Controller with Hybrid Energy Storage System for PMSG Based Wind Energy Conversion System" International Journal of Recent Technology and Engineering, 8(1S5) pp 219-229
- 29. G. Suresh, A.Amudha, Dr.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, 8(1S5) pp 230-234
- 30. 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, 8(1S5) pp 235-243
- 31. S. Viswalingam, G. Emayavaramban, Dr.M. Siva Ramkumar, A. Amudha, K. Balachander, S. Divyapriya, IR.V. Mohamed Mansoor "Performance Analysis of a Grid Connected PV-Wind with Super Capacitor Hybrid Energy Generation & Storage System" International Journal of Recent Technology and Engineering, 8(1S5) pp 658-666
- 32. N.Pandiarajan, G.Emayavaramban, A.Amudha, Dr.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, 8(1S5) pp 242-245
- V.Jayaprakash, S.Divyapriya, A.Amudha, G.Emayavaramban, Dr.M.Siva Ramkumar, "Nano
 Grid Smart Home With Plug-in Electric Vechicle using a Hybrid Solar-Battery Power
 Source" International Journal of Recent Technology and Engineering, 8(1S5) pp 246-248
- 34. K.T.Chandrasekaran, S.Divyapriya, A.Amudha, Dr.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, 8(1S5) pp 261-265
- 35. Balachander Kalappan, A. Amudha & K. Keerthivasan (2020): Technoeconomic study of hybrid renewable energy system of Metropolitan Cities in India, Taylor & Francis International Journal of Ambient Energy, DOI: 10.1080/01430750.2019.1708791
- 36. Dr. K. Balachander, Dr. A. Amudha, Dr. M. Venkatesan, Dr. A. Nagamani Prabhu, R. Sundar: (2020) Energy Efficient Measures in Textile Mill, Test Engineering and Management, Vol. 82, pp. 6233 6239.
- 37. K. Balachander, A. Amudha, "Energy Economy Recommendations in Textile Mill", International Journal of Engineering and Advanced Technology, Volume-8 Issue-4, April 2019, pp.168-176.

- 38. Sathishkumar S, K. Balachander, A. Amudha, G. Emayavaramban, M. Siva Ramkumar, S. Divyapriya, "Design and Hardware Implementation of Wind PV System with RSC" International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, Special Issue 4, 958-962.
- 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, Vol. 8, Issue 4, pp. 104 - 113.
- 40. A. K. S. M. N. Sankar, Balachander, A. Amudha, Divyapriya, Siva Ramkumar,"Compensation of Voltage Variations in Distribution System During Fault Condition by Using Separate Energy Storage Device Based DVR" Mathematical and Computational Forestry & Natural-Resource Sciences, Vol. 11(01),pp 209-222, Mar 2019 (Scopus, E-SCI Indexed)
- 41. Dr. K. Balachander and Dr. A. Amudha Presented a paper titled "Power Quality Analysis of a RES –MLI with Current Control Loop" at IE(I) 35th National Convention of Electrical Engineers & National Conference on "Storing Energy for a Sustainable Future Future Energy in any Isolated World" on 7th 9th Nov 2019 at Chennai.
- 42. Viyathukattuva M.A.M.M, Amudha A, M.Siva Ramkumar, G.Emayavaramban "Relation between Solar PV Power Generation, Inverter Rating and THD" International Journal of Engineering and Advanced Technology, ISSN: 2249 8958, Volume-9 Issue-1,2019.
- 43. D.sivakumar, Amudha A, K. Balachander, M.Siva Ramkumar "Implementation Of Harmonic Mitigation Of Grid Connected Modified Mli For Variable-Speed Wind Energy Conversion System" Math. Comput. For. Nat.-Res. Sci, Vol. 11, Issue 1, pp. 1–256/http://mcfns.com 223.
- 44. N.A.Shankar, K.Balachander Amudha.A, S.Divyapriya, M.Siva Ramkumar "Compensation Of Voltage Variations In Distribution System During Fault Condition By Using Separate Energy Storage Device Based Dvr". Vol. 11, Issue 1, pp. 1–256/http://mcfns.com 209.
- 45. Dr. K. Balachander, Dr. A. Amudha, "Power Quality Analysis of a RES –MLI with Current Control Loop" IE(I) 35th National Convention of Electrical Engineers & National Conference on "Storing Energy for a Sustainable Future Future Energy in any Isolated World, Vol.& Page No. 15 to 20,2019
- 46. M.Sivaramkrishnan, Dr. A. Amudha, M.Siva Ramkumar "Modulation Techniques of the Matrix Converter Using RSV" Jour of Adv Research in Dynamical & Control Systems, Vol. 11, 12 Special Issue Page No 1041-1053,2019.
- 47. 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)

- 48. 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)
- 49. 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
- 50. 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.
- 51. 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
- 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.
- 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.
- 54. 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
- 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.
- 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.
- 57. 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.
- 58. 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.
- 59. 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.
- 60. 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.
- 61. K. Balachander, 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.
- 62. K. Balachander, 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.
- 63. 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
- 64. 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
- 65. 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
- 66. 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.

- 67. 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
- 68. 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.
- 69. 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.
- 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.
- 71. 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.
- 72. 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.
- 73. 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)
- 74. 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.
- 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.
- 76. 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.
- 77. 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
- 78. 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)
- 79. 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)
- 80. 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
- 81. M.Siva Ramkumar, Dr.A.Amudha, M.Sivaram Krishan, S.Sriragavi . "MER Based Bi-Directional Three Widing Dc- Dc Converters with ZVS" International Journal of Scientific Research and Review (IJSRR) 7(1),pp 9-17.
- 82. 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.
- 83. 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 (IJEECS) Volume no 6 Issue no 9 pp 239-245.
- 84. K.R. Jayakrishna 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.
- 85. R. Ravichandran K. Balachander 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.
- 86. R. Yuvaraj K. Balachander 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.

- 87. 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.
- M. Subramanian M. Siva Ramkumar 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.
- 89. 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.
- 90. 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.
- 91. 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.
- 92. 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.
- 93. 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.
- 94. 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.
- 95. Amudha. A "Home Automation using IoT" International Journal of Electronics Research, Vol.09 (06), June 2017, pp939-944.
- 96. S.Selvaperumal, P.Nedumalpugazhenthi, 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, pp 1044-1055.
- 97. Balachander. K, 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.

- 98. R. Gayathri and 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
- 99. 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.
- 100. 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.
- 101. 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
- 102. Samson Raja Simson , SundarRavichandran , AmudhaAlagarsamy, Nithiyananthan Kannan, Virtual State Estimation Calculator Model for Three Phase Power System Network, Journal of Energy and Power Engineering, 10 (2016), 497-503
- 103. 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.
- 104. 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.
- 105. A. Theivanayake and A .Amudha "Reduction of Harmonis by Detuning of Capacitors", Middle-East Journal of Scientific Research 24 (3): 681-694, 2016.
- 106. 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