Resume

Dr. M. Muruganandam M.E, Ph.D.,

Associate Professor,

Department of Electrical and Computer Engineering,

Wollega University,

Nekemte, Oromia, Ethiopia.

E-mail ID:



Father's Name : Mr.M.Masilamani
 Mother's Name : Mrs.M.Neelambal

4. Date and place of Birth : 15th June 1975, Salem, Tamilnadu, India.

5. Nationality : Indian6. Religion : Hindu7. Passport Number : J5817839

8. Present postal address/Tel.No/E-mail: Dr.M.Muruganandam

S/o. Mr.M.Masilamani

55, Adhi Selva Ganapathi Street,

Ammapet, Salem District,

9. Educational Qualifications:

S.No	Degree	Year	Specialization	Grade/ Class	Institute and University
1	Ph.D	2014	Intelligent controller for DC Drives	-	Anna University, Chennai
2	M.E	2005	PED	78.82 % I Class with Distinction	Mepco Schlenk Engg. College, Anna University, Chennai
3	B.E	2003	EEE	60.8 % I Class	Govt. College of Engineering, Periyar University, Salem
4	Diploma	1996	EEE	82.58 % I Class with Honors	Salem Polytechnic, State Board of Technical Education.
5	H.Sc	1993	Maths and Science	52.08 % I Class	Municipal Boys Higher Secondary School, Ammapet

					- State Board
6	SSLC	1991	Maths and Science	70.80 % I Class	Municipal Boys Higher Secondary School, Ammapet – State Board

10. Professional Experience:

S.No	Designation	Name of the Institution	Nature of Job	Period of service	Years of Experience
1	Associate Professor	Wollega University, Ethiopia	Teaching, Research and Administration	Oct'15- Till date	2 Months
2	Professor	Muthayammal Engineering College, Rasipuram,	Teaching, Research and Administration	Mar.'14- Sept'15	1 Year 6 Months
3	Assistant Professor	Muthayammal Engineering College, Rasipuram,	Teaching, Research and Administration	Nov.'09- Mar.'14	4 Years 4 Months
4	Lecturer	Muthayammal Engineering College, Rasipuram,	Teaching	May.'05- Nov.'09	4Years 6 Months
5	Instructor	Murugesan Polytechnic College, Karipatti, Salem.	Teaching	June'99- July'03	4 Years
6	Electrical Technician	Thangavelu Textiles Pvt Ltd., Salem.	Electrical Maintenance	Oct.'98- May'99	8 Months
7	Technician Apprentice	Tamilnadu Electricity Board, Salem.	Training	Sept'97- Sept'98	1 Year
8	Electrical Technician	Thambbi Modern Spinning Mills Ltd, Salem.	Electrical Maintenance	Apr'96- Sept'97	1 Year 5 Months

Teaching Experience : 14 Years & 6 month
Industrial Experience : 3 Years & 1 Month

Total Experience : 17 Years & 7 Months

11. Books published:

Published 4 Books

❖ Basic Electrical Engineering (ISBN No.: 978-81-8472-000-6)

- ❖ Electromechanical Energy conversion(ISBN No.: 978-81-8472-039-6)
- ❖ Synchronous and Induction Machines(ISBN No.: 978-81-8472-074-7)
- ❖ Electrical Engineering (ISBN No.: 978-81-8472-089-1)

12. Subject Expertise:

- Embedded Systems
- **❖** Power Electronics
- Fuzzy Logic And Neural Networks
- Design of Electrical Apparatus
- ❖ Analysis of Power Converters
- **❖** Advanced Power Semiconductor Devices
- ❖ Simulation of Power Electronic Systems
- Computer Aided Design of Electrical Apparatus
- Solid State Drives
- Electrical Machines II
- Electrical Machines I

13. Research Publications:

❖ International Journals : 56❖ National Conferences : 07

❖ International Conferences : 06

14. Workshops/Seminar/Symposium organized:

❖ International Conference : 01

❖ Workshops : 12

Seminars : 04

❖ Guest Lecture : 06

❖ Symposium : 06

❖ Department Competition : 03

Certificate/Value added Courses : 02

❖ Alumni Interaction : 02

15. Workshops/Seminar/Symposium participated:

♦ Workshops : 10

❖ Seminar/SDP/Training Program : 08

16. Professional Bodies Membership:

- ❖ Life Member of ISTE (Member No.: LM 70808)
- ❖ Member in IAENG (Member No.: 126481)

17. Country Visited:

❖ Visited Dubai (To attend an International Conference "ICEEME'2013")

18. Journal Reviewer

- ❖ Taylor & Francis (Electric Power Components and Systems)
- **❖** ICTACT (Journal on Soft computing)
- ❖ JEEER(Journal of Electrical and Electronics Engineering Research)
- ❖ CJECE(Canadian Journal of Electrical and Computer Engineering)
- ❖ IJMLC (International Journal of Machine Learning and Cybernetics)

19. Programme Coordinator

- ❖ Fine Arts Club Coordinator of Muthayammal Engineering College
- ❖ As ISTE student branch coordinator, co-ordinate many prorgramme like technical paper presentation, GATE awareness programme and hardware contest etc
- ❖ Co-ordinated Postgraduate and undergraduate project work

20. 100% Result Produced Subjects

- Computer Aided Design of Electrical Apparatus
- **❖** Analysis of Power Converters
- ❖ Simulation of Power Electronic Systems
- ❖ Advanced Power Semiconductor Devices
- ❖ Design of Electrical Apparatus
- ❖ Fuzzy Logic And Neural Networks
- **❖** Power Electronics

LIST OF PUBLICATIONS

JOURNALS

- M.Muruganandam, N.Senthil Kumar, V.Sadasivam, 'A Low-cost Four-quadrant Chopper-fed Embedded DC Drive Using Fuzzy Controller', Published in Inter National Journal of Electric Power Components and Systems, Taylor and Francis, Volume 35, Issue 8 August 2007, pages 907-920.
- M.Madheswaran and M.Muruganandam, "Simulation and Implementation of PID-ANN Controller for Chopper Fed Embedded PMDC Motor" Published in ICTACT Journal On Soft Computing, Volume 2, Issue 3, April 2012 pp 319-324. ISSN: 2229-6956(Online)
- 3. **Muruganandam, M.** and Madheswaran, M. "Stability Analysis and Implementation of Chopper fed DC Series Motor with Hybrid PID-ANN Controller" Published in International Journal of Control, Automation and Systems, Springer, Volume 11, Issue 5, October 2013. ISSN: 1598-6446 (Print) 2005-4092 (Online)
- 4. **M. Muruganandam**, M. Madheswaran, "Experimental verification of chopper fed DC series motor with ANN controller" Published in International Journal of Frontiers of Electrical and Electronic Engineering in China, (Springer Publication) Volume 7, Issue 4, December 2012, pp 477-489. ISSN: 2095-2732 (print) 1673-3584 (Online)
- Muruganandam, M, Thangaraju I and Madheswaran, M. "Simulation and Implementation of an Embedded Hybrid Fuzzy Trained Artificial Neural Network Controller for Different DC Motor" Published in International Journal of Engineering and Technology, Vol. 6, Issue 1, pp. 315-332 February 2014. ISSN:0975-4024 (Online)
- 6. C Nagarajan, **M Muruganandam**, D Ramasubramanian, "Analysis and Design of CLL Resonant Converter for Solar Panel-battery Systems", International Journal of Intelligent Systems and Applications (IJISA), Volume 1, December 2012 pp 52-58.
- M.Muruganandam, M.Madheswaran, "Simulation and Implementation of Generalized Hybrid Intelligent Controllers for Chopper fed DC Series Motor" Published in International Journal of Wulfenia, Volume 19, Issue 12, December 2012, Page(s):313-335. ISSN: 1561-882X
- 8. M.Kirubavathi, G.Dineshkumar and **M.Muruganandam**, "Fault Current and Over Voltage Limitation in a Distribution Network with Distributed Generation Units through Superconduction Fault Current Limiter" Published in International Journal of Engineering Research and Technology, Volume 3, Issue 11, November 2014, Page(s):1442-1445, ISSN: 2278-0181.

- 9. I.Thangaraju, **M.Muruganandam**, and M.Madheswaran, "Performance Analysis and Experimental Verification of Buck Converter fed DC Series Motor Using Hybrid Intelligent Controller with Stability Analysis and Parameter Variations" Published in Journal of Electrical Engineering and Technology, Vol.10 Issue No.2, March-2015, Page(s) 518-528. ISSN(Print): 1975-0102, ISSN(online): 2093-7423.
- I. Thangaraju, M. Muruganandam and C. Nagarajan, "Implementation of PID Trained Artificial Neural Network Controller for Different DC Motor Drive" Published in Middle-East Journal of Scientific Research Volume 23, Issue 4, Page(s): 606-618, March- 2015, ISSN 1990-9233.
- 11. I. Thangaraju, M. Muruganandam and C. Nagarajan, "Design Simulation and Implementation of Fuzzy Tuned Artificial Neural Network Controller for Chopper fed DC Series Motor using a Low Cost Microcontroller" Published in Middle-East Journal of Scientific Research Volume 23, Issue 6, Page(s): 1091-1104, May-2015, ISSN 1990-9233.
- 12. M Meera, **M Muruganandam**, "SEPIC Converter Based Switched Mode Power Supply Design for Battery" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 679-686 Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875.
- 13. M Saranya, S Ramkumar, **M Muruganandam**, "Modelling and Simulation of High Step-Up DC/DC Converter for On-Site Generation System" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 687-693 Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875
- 14. M Saravanakumar, C Haris Naveena, M Muruganandam, "Bidirectional Modular Multilevel DC/DC Converter with Wide Range of Control" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 984-989, Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875
- 15. R Pavithra, M Muruganandam, "A Sensorless Current Controlled DC-DC Converter with Intelligent Control Technique" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 779-786, Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875

- 16. S Lakshmipriya, RK Raghav, M Muruganandam, "A Thirteen Level Inverter Design Based on Hybrid MLI Topology for Minimum THD" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 976-983, Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875.
- 17. G Maruthaipandian, S Ramkumar, **M Muruganandam**, "Design and Implementation of BLDC Motor Using Regenerative Braking for Electric Vehicle" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 694-701, Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875.
- 18. P Ranjitha, V Dhinesh, M Muruganandam, "Soft Switching with Cascaded Transformers to Drive the PMDC Motor" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 787-794, Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875.
- 19. J Vinoth, T Muthukumar, M Muruganandam, "Implementation of Distributed Maximum Power Point Tracking for Partially Shaded PV Systems" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 2, Pages 702-709, Feb-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875.
- 20. K Prabha, T Malathi, M Muruganandam, "Power Quality Features Improvement In Single-Phase Grid-Connected Inverter With Non-Linear Loads" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 3, Pages 1269-1276, March-2015. ISSN (Print): 2320 –3765 ISSN (Online):2278 –8875.
- 21. R Pavithra Priya, N Sivaraj, **M Muruganandam**, "A Solution to Unit Commitment Problem with V2G Using Harmony Search Algorithm" Published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 4, Issue 3, Pages 1208-1214, March-2015. ISSN (Print): 2320 3765 ISSN (Online):2278 –8875.
- 22. Haris Naveena.C , S.Dhanapriya, **M Muruganandam**, " Evaluation of Diabetic Macular Edema From Color Retinal Images" Published in International Journal of

- Advanced and Innovative Research, Volume 3, Issue 12, Pages 284-287, Dec-2014. ISSN: 2278-7844
- 23. S.Saranraj, A.Sasipriya, S.Ramkumar and M Muruganandam, "A Voltage Controlled PFC SEPIC Converter Based PMBLDCM Drive for Air-Conditioners Using Fuzzy Controller" Published in International Journal of Advanced and Innovative Research, Volume 3, Issue 12, Pages 358-362, Dec-2014. ISSN: 2278-7844
- 24. M.B.Malayandi, S.Saravanan, M.Murganandam, "Design and analysis of Multilevel Boost Converter and Line Commutated Inverter for Universal System" Published in International Journal of Research in Advent Technology, Volume 3, Issue No.2, Pages 22-27, February 2015. E-ISSN: 3220157
- 25. V.Bhuvaneswari, S.Saravanan, M.Muruganandam, "A Multilevel Inverter Based D-Statcom Control for Distributed Energy Systems" Published in International Journal of Applied Engineering Research Volume 10, Issue Number 9, Pages 8746-8751, April-2015, ISSN 0973-4562.
- 26. T.Divya, P.Sankar, M.Muruganandam, "Stability Enhancement of Microgrid Using Hybrid Controlled Storage System" Published in International Journal of Applied Engineering Research Volume 10, Issue Number 9, pages 8777-8781, April-2015, ISSN 0973-4562.
- 27. M.Iswarya, M.Vijayaragavan, **M.Muruganandam**, "Centralised Optimal Joint Scheduling For Electric Vehicles and Home Appliances Using Smart Microgrids" Published in International Journal of Applied Engineering Research Volume 10, Issue Number 9, pages 8792-8795, April-2015, ISSN 0973-4562.
- 28. K.M.Janani **M.Muruganandam**, "Renewable Power Sharing on Power Grid with Performance Improved Inverter" Published in International Journal of Applied Engineering Research Volume 10, Issue Number 9, pages 8761-8766, April-2015, ISSN 0973-4562.
- 29. S.Sindhuja, K.Madumathi, **M.Muruganandam**, "Enhancing the Stability of A Single Bus System Using Shunt Active Filter" Published in International Journal of Applied Engineering Research Volume 10, Issue Number 9, pages 8744-8747, April-2015, ISSN 0973-4562.
- 30. C.Viji, A.Sasi Priya, **M.Muruganandam**, "Implementation of Voltage Regulation using Adaptive Voltage Control by Reducing Capacitor Size in PV System" Published

- in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1101-1108, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 31. Meenakshi R, Venkatesan C V, Muruganandam M, S.Saravanan, "Implementation of Three Phase Interleaved Converter for Renew able Energy System" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1120-1126, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 32. R.Senthamizhchelvi, S.Saranraj, **Muruganandam M**, "Sensor less Speed Control of PMBLDC Motor" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1127-1133, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 33. S.Arunvijay, M.Praveen Santhoshkumar, **M.Muruganandham**, S.Saravanan "Design and Implementation of Three Phase AC-DC Converter for Dc Drives" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1134-1139, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 34. U.Nandhalaalaa, S.Ramkumar, **M.Muruganandam**, "High Static Gain for Solar Application using Modified SEPIC Converter" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1158-1166, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 35. M.Vanathi, P.M.Manikandan, **M.Muruganandam**, S.Saravanan, "A Modified Seven Level Inverter for Dynamic Varying Solar Power Generation System" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1182-1191, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 36. M.Iswarya, T.Divya, M.Vijayaraghavan, **M.Muruganandam**, "Renewable Energy Integrated Smart Microgrid Scheduling for Electric Vehicles and Home Appliances" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1198-1203, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.

- 37. M.Saravanakumar, C.Harris Naveena, **M.Muruganandam**, "Design and Implementation Modular Multilevel DC/DC Converter with Bidirectional Wide Range of Control" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1222-1229, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 38. Meera M, Vinoth J, **Muruganandam M**, "Design and Implementation of Non-Isolated Full Bridge LLC Resonant Converter" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1230-1236, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 39. M.Kirubavathi, G.Dineshkumar, **M.Muruganandam**, "Using Superconducting Fault Current Limiter the Fault Current and Over Voltage is Limited in a Distribution Network" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1310-1316, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 40. V.Bhuvaneswari, K.M.Janani, **M.Muruganandam**, "A New and Strange 15 Level Inverter Topology for Harmonic Reduction Using Hybrid Renewable Energy System" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1328-1337, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 41. R.Bashkaran, M.Vijayaraghavan, **M.Muruganandam**, S.Saravanan, "Improving the Stability of DFIG-Based Offshore Wind Farm Using a STATCOM" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1338-1343, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 42. S.Sindhuja, K.Madumathi, **M.Muruganandam**, S.Saravanan, "Improving the Stability of a Two Bus System Using Shunt Active Filter" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1344-1351, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 43. S.Lal, K.Madumathi, **M.Muruganandam,** S.Saravanan, "Battery Energy Storage Station (BESS) Based Smoothing Control of Photovoltaic (PV) and Wind Power Generation Fluctuations" Published in International Journal of Innovative Research in

- Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1352-1359, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 44. K.Surendar, M.Ramya, **M.Muruganandam**, "Control of Reduced Rating Dynamic Voltage Restorer with Battery Energy Storage System Using Fuzzy Logic" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1391-1398, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 45. P.Ranjitha, V.Dhinesh, **M.Muruganandam**, S.Saravanan, "Implementation of Soft Switching with Cascaded Transformers to drive the PMDC Motor" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1411-1418, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 46. S.Lakshmipriya, R.K Raghav, **M.Muruganandam**, S.Saravanan, "A Simple and Efficient Interleaved Buck Converter for Battery Charging Application" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1419-1426, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 47. R.Pavithra, M.Saranya, G.Maruthaipandiyan, S.Ramkumar, **M.Muruganandam**, "Boost-Half-Boost Photovoltaic System Using SPWM Control and MPPT" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1427-1435, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 48. N.Yuvaraj, B.Deepan, **M.Muruganandam,** S.Saravanan, "Statcom Based of Adaptive Control Technique to Enhance Voltage Stability on Power Grid" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1454-1461, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 49. P.Arivazhagan, B.Deepan, **M.Muruganandam**, S.Saravanan, "Power Sharing Optimization between Gridand Microgrid With Multiple Distributed Generators" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1462-1470, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.

- 50. S.Sureshkumar, N.Sivaraj, **M.Muruganandam**, "A Hybrid Wind-SolarEnergy System: A New Rectifier Stage Topology" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1487-1493, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 51. P.Vinoth, A.Sasipriya, **M.Muruganandam**, "A New ZCS PWM Full Bridge DC-DC Converter with ANN Controller for PMDC Drives" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1494-1498, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 52. J.Vinoth, T.Muthukumar, **M.Muruganandam**, S.Saravanan, "Efficiency Improvement of Partially Shaded PV System" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1502-1510, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 53. N.Nazzirudeen, G.Dineshkumar, **M.Muruganandam**, "Realization of Harmonic Elimination on Grid Connected Power System with Closed Loop Current Control Technique" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1511-1519, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 54. R.Pavithra Priya, N.Sivaraj, **M.Muruganandam**, "A Solution to Unit Commitment Problem with V2G Using Improved Harmony Search Algorithm" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1553-1559, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 55. M.B.Malayandi, S.Saravanan, M.Muruganandam, "A Single Phase Bridgeless Boost Converter for Power Factor Correction on Three State Switching Cells" Published in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special Issue 6, Page (s) 1560-1566, May 2015, ISSN(Online): 2319 8753, ISSN (Print): 2347 6710.
- 56. I Thangaraju, **M Muruganandam** and M Madheswaran, "Implementation fuzzy tuned artificial neural network controllerfor chopper fed DC series motor using a low cost microcontroller" Published in ARPN Journal of Engineering and Applied Sciences, Volume 10, Issue 12, Page (s) 5083-5093, July 2015 ISSN 1819-6608 (Online)

57. **M Muruganandam,** I Thangaraju and M Madheswaran, "Performance Estimation of Chopper fed DC Series Motor with ANN Controller" Accepted for publication in Iranian Journal of Electrical and Computer Engineering, ISSN 1682-0053.

CONFERENCES

- M.Muruganandam and M.Madheswaran, "Performance Analysis of Fuzzy Logic Controller Based DC-DC Converter fed DC Series Motor" IEEE international conference, Chinese Control and Decision Conference (CCDC 2009), 17-19 June 2009, China, Pages 1635-1640.
- 2. **M.Muruganandam** and M.Madheswaran, Modeling and Simulation of Modified Fuzzy Logic Controller for Various types of DC motor Drives" IEEE international conference on Control, Automation, Communication and Energy Conservation -2009, 4th-6th June 2009, Erode, Page(s):272 277 vol.1.
- 3. **M.Muruganandam**, N.Senthil Kumar, V.Sadasivam, Design and Simulation of Fuzzy Controller for Closed Loop Control of Four Quadrant Chopper fed DC Drive, PEITSICON-2005, IEE, Kolkata Branch, Science City Kolkata, 28-29 Jan'05,Page(s):125-129.
- 4. **M.Muruganandam,** R.Sagayaraj, 'Modeling and Simulation of Fuzzy Controlled DC Drive in Comparison with PI controller', ETA-2006, Saurashtra University and Amoghsiddhi Education Society, Saurashtra University, Rajkot, 1-2 Oct.'06
- 5. **M.Muruganandam,** M.Hemalatha, Kavitha, 'A Neuro-Fuzzy Based Adaptive Vector Control of Induction Motor Drives for Industrial Applications', XETA-2K7, Jayam College of Engineering & Technology, Jayam College of Engineering & Technology, Dharmapuri. 4-5 April'07, pp-43
- M.Muruganandam, M.Hemalatha, N.Senthil Kumar, 'Design And Simulation Of Closed Loop Control Of Chopper Fed Dc Motor Using Fuzzy Controller', ITEES'08, Muthayammal Engineering College, Muthayammal Engineering College, Rasipuram, 22-23 Feb'08, pp-68.
- M.Muruganandam, S.Velmurugan, 'Design and Simulation of modified Fuzzy Controller for Closed Loop Control of Four Quadrant DC-DC Converter fed DC Drive', NCACCA-09, KSR College of Tech, KSR College of Tech., Trichengode, 3-4 April'09, pp-7-13

- 8. **M.Muruganandam** and M.Madheswaran, "Analysis of Fuzzy-ANN Controller for Closed Loop Control of Chopper fed DC Series Motor with Parameter Variation" has been presented in the International Multi Conference on Automation, Computing, Communication, Control and Management (MultiCon'12) at Muthayammal Engineering College, Rasipuram, on 20th -21st April, 2012.
- M.Muruganandam and M.Madheswaran, "Hybrid PID-ANN Controller for Closed Loop Control of Chopper fed DC Series Motor" has been presented the Second International Conference on Interdisciplinary Research and Development, INRIT2012, 1st June 2012, Thailand.
- 10. M.Muruganandam and M.Madheswaran, "Design of Modified Fuzzy Logic Controller for Closed Loop Control of Chopper fed DC Series Motor Drive Analysis with Motor Parameter Variation" Doctoral Student Conference at Muthayammal Engineering College, Rasipuram.
- 11. Neelakrishnan and **M.Muruganandam**, "An Improved AC.DC Converter with Quasi active power factor correction", National Conference Recent Advancement and Challenges in Electrical Engineering and Applications, organized by Institute of Road and Transport Technology, Erode, 29th February and 1st March 2012.
- 12. S.Ramkumar and **M.Muruganandam**, "Design and simulation of universal artificial neuron controller for chopper fed embedded pmdc motor" 3rd National Conference on Advancement in Electrical Sciences, (NCAES'12), 24th February 2012, Organized by Department of Electrical and Electronics Engineering, SNSCT, Coimbatore-35.
- 13. **M.Muruganandam** and M.Madheswaran, "Implementation of Hybrid Fuzzy-Neuro Controller for Chopper Fed PMDC Motor" 2nd International Conference on Computer, Electrical, Electronics & Mechanical Engineering (ICEEME'2013), organized by Planetary Scientific Research Centre, March 17-18, 2013, Dubai (UAE).

LIST OF PROGRAMMES ORGANISED

S.No Name of the		Title of the Programme	Date	Role in the
	Programme			Programme
1.	National Level Tech. Symposium	PWR-SPARX-07	11.09.07	Coordinator
2.	Workshop	Embedded Controller for Electrical Systems	22.01.08	Coordinator
3.	Seminar	PLC & SCADA	21.01.10	Convener
4.	Workshop	LabVIEW	28.01.10	Convener
5.	Guest Lecture	Control Systems	18.02.10	Convener
6.	Guest Lecture	Fuzzy logic and Neural network	22.03.10	Coordinator
7.	Workshop	Industrial Automation	27.03.10	Convener
8.	Department competition	Project contest	04.03.10	Convener
9.	Workshop	Basic Electrical, Electronics and Instrumentation	31.07.10	Convener
10.	Workshop	Real Time Applications of PLC and DCS	02.09.10	Convener
11.	National Level Technical Symposium	INSGLITZ'10	24.09.10	Convener
12.	Seminar	Basics of LabVIEW	10.01.11	Convener
13.	Guest Lecture	Stability analysis of Control System	11.01.11	Convener
14.	Department competition	Technical Quiz	02.03.11	Convener
15.	Workshop	Recent trends in Virtual instrumentation using LabVIEW	11.03.11	Convener
16.	Workshop	Recent trends in Process Control Automation	20.08.11	Convener

17.	National Level Tech. Symposium	INSGLITZ'11	21.09.11	Convener	
18.	Workshop	Embedded system in Industrial Automation	10.01.12	Convener	
19.	Guest Lecture	Automation in cement industries	6.03. 12	Convener	
20.	Department competition	Technical Quiz	24.03. 12	Convener	
21.	Guest Lecture	Embedded system Applications in Instrumentation	26.03.12	Convener	
22.	AICTE Sponsord Seminar	Recent trends in Virtual Instrumentation	21.05.12 & 22.05.12	coordinator	
23.	Workshop	Rapid Development of Embedded system using flow code	30.08.12 & 31.08.12	Convener	
24.	Workshop	Real Time applications of PLC and SCADA	07.09.12	Convener	
25.	National Level Tech. Symposium	INSGLITZ'12	28.09.12	Convener	
26.	Workshop	PLC programming and Applications in Process Control	20.02.13	Convener	
27.	Value added	Lab VIEW- Application to	25.06.13	Convener	
41.	Course	Industrial Automation	& 26.06.13	Convener	
28.	Alumni Interaction	Over View of BIGDATA	02.09.13	Convener	
29.	Certification	Printed Circuit Board Design &	28.06.13	Convener	
<i></i>	Course	Fabrication Process	& 29.06.13	Convener	
30.	Fine Arts Club	Essay Writing, Poem Writing,	26.07.13 &	Coordinator	
50.		Drawing, and Painting	09.08.13		
31.	National Level	INSGLITZ'13	06.09.12 &	Convener	
51.	Tech. Symposium	INSERTE IS	07.09.12	Convener	
32.	Awards Day	Muthayammal Awards Day-2014	08.02.14	Co-Cordinator	

33.	Guest Lecture	Embedded System Applications to modern Industries	08.03.14	Convener
34.	Alumni Interaction	What the Industries require?	08.03.14	Convener
35.	Workshop	Applications of Real Time Embedded System with Hands on Training	18.09.14 & 19.09.14	Convener
36.	Seminar	MI Power Applications to Power System	06.11.14	Convener
37.	National Level Tech. Symposium	E-CON'15	04.02.15	Convener
38.	International Conference	MULTICON'15	29.04.15 & 30.04.15	Convener

LIST OF PROGRAMS PARTICIPATED

S.No	Name of the Programme	Title of the Programme	Date	Organized by
1	Orientation Programme	Teaching Methodology For Young Teachers	05.07.06 To 07.07.06	Muthayammal Engineering College, Rasipursm
2	National Seminar	Advanced Power Converters for Special Electrical Drives	19.07.06 To 21.07.06	AICTE at Kongu Engg. Clg, Erode
3	Workshop	Embedded Controller for Electrical Systems	05.10.07 & 06.10.07	Muthayammal Engineering College, Rasipuram
4	Workshop	RESEARCH METHODOLOGY	09.02.08	Muthayammal Engineering College, Rasipursm

5	Workshop	Industrial Automation on Neuro-Fuzzy and its Applications	28.05.08 & 29.05.08	The Kaveri Engg. College, Mechri.
6	Orientation Program	Excellence in Technical Education and Research	07.06.08 & 08.06.08	Anna University, Coimbatore.
7	Workshop	TCAD and IC CAD Technology and FPGA Using Silvaco and Tanner Tools	20.09.08	Muthayammal Engg. College, Rasipursm
8	Workshop	Advanced Electrical Machines & DSP Processors	06.12.08	MET'S School of Engg, Kerala.
9	Workshop	Environmental Management	26.06.09	NITTTR,Tharamani, Chennai
10	Workshop	Recent trends in Digital and Embedded Control of Power Converter and Drives	17.09.09 To 19.09.09	Mepco Schlenk Engg Colleg, Sivakasi
11	Technical Forum	Educator's day 2010	14.12.10	National Instruments, Chennai
12	AICTE Sponsored SDP	Soft Computing techniques in Advanced Special Electrical Drives	13.06.11 To 25.06.11	Muthayammal Engg. College, Rasipursm
13	Workshop	Team Building and Leadership	21.01.12	Kumaraguru College of Tech., Coimbatore
14	Workshop	High Impact Teaching skills, Dale Carnegie Training	27.02.12 & 28.02.12	Muthayammal Engg. College, Rasipuram, by Wipro Mission10X
15	Workshop	Mission 10X workshop	27.02.12 To 02.03.12	Muthayammal Engg. College by Wipro Mission 10X

16	AICTE Sponsored SDP	Multi-Objective optimization techniques for manufacturing processes	16.04.12 To 28.04.12	Muthayammal Engg. College, Rasipursm
17	AICTE Sponsored Seminar	MEMS/Nano Technology Integration for Bio-Medical Application	24.05.12 & 25.05.12	Muthayammal Engg. College, Rasipursm
18	Training Programme	Instructional Design and Delivery System	29.07.13 To 02.08.13	NITTTR, Tharamani, Chennai with Muthayammal Engg. College, Rasipursm

List of Guest lecture / Workshop / Seminar Delivered (As a resource person)

S.No	Name of the Programme	Title	Date	Organized by
1.	Seminar	Embedded Systems	03.01.09	Murugesan Polytechnic College, Salem
2.	Guest Lecturer	Applications of Embedded Systems	08.04.10	Er. Perumal Manimekalai College Of Engg, Hosur
3.	Seminar	Embedded system Basics and Applications	03.02.2010	Muthayammal Engg. College, Rasipursm
4.	Workshop	Power Electronics Drives and Control	19.03.11	Muthayammal Engg. College, Rasipursm
5.	AICTE Sponsored SDP	Soft Computing Technique in Advanced Special Electrical Drives	25.06.11	Muthayammal Engg. College, Rasipursm
6.	Workshop	MATLAB Applications in Power Electronics	24.09.11	AVS Engineering College, Salem.
7.	National Level Tech. Symposium	Keynote Address on Embedded Systems	28.03.12	PGP College of Engg and Tech., Namakkal.

8.	Guest Lecture	Applications of Embedded Systems	17.08.12	Meenakshi Polytechnic College, Dharmapuri.
9.	Guest Lecture	Recent trends in Electrical Engineering	13.09.12	Ganesh College of Engg, Salem.
10.	Workshop	Hands on training in MATLAB Toolboxes	21.09.12	Excel College of Engg and Technology, Namakkal.
11.	Value Added Course	Applications of Power Electronic Converters and Controllers	20.06.13 To 24.06.13	Muthayammal Engg. College, Rasipursm
12.	Faculty Development Programme	Implementation of Intelligent controllers in MATLAB	24.08.13	Govt. College of Engg., Bargur.
13.	Workshop	Modeling and simulation of Power Electronics Converters	01.10.13	Tagore Institute of Engg. and Technology, Attur.
14.	Faculty Development Programme	R & D In Power Electronics	14.11.13	Govt. College of Engg., Bargur
15.	Value Added Course	Electrical Drives and Control	28.09.14	Muthayammal Engg. College, Rasipursm
16.	Inaugural Function of EEE Association	Basic electrical Engineering	08.10.14	Idhaya Engineering College for Women, Villupuram
17.	Seminar	Fuzzy Logic and Neural Network Implementation using MATLAB	30.10.14	Muthayammal Engg. College, Rasipursm
18.	Seminar	MATLAB Application to Power Electronic Converters	20.11.14	Muthayammal Engg. College, Rasipursm

19.	International Conference (ICEECE-15) Key note Address	Embedded system Technologies	12.03.15	Vivekanandha College of Engineering for Women, Namakkal.
20.	Anna University Sponsored Faculty Training Programme	Microprocessor & Microcontroller	23.05.15	A.V.S College of Techno;ogy, Salem.

OTHER INFORMATIONS

- Received funding of Rs. 50,000/- for "SEMINAR GRANT" from AICTE (F.No.:RIFD/SEM/83/2011-12 dt.30.11.2011)
- ❖ Published Technical Magazine as a Convener "INSTRONICS" by our EIE department 5 issues per year. (Web Link: http://measurers.yolasite.com/instronics.php)
- Question paper setter for various Deemed Universities and Autonomous Engineering colleges
- Delivered Guest Lectures and workshops in various Engineering colleges and Polytechnic colleges
- ❖ Actively involved in making the department as Centre for Collaborative Research with Anna University, Coimbatore
- Established Power Electronics lab, Simulation Lab, Special Electrical Machines Lab with the advanced equipment and softwares
- ❖ Governing Council Member of Muthayammal Engineering College
- ❖ Delivered special Lectures in various workshops, AICTE sponsored seminars, SDP and Guest Lecture programmes organized by EEE, ECE and Mechanical Departments of Muthayammal Engineering College
- Chair person for National Level Technical Symposium, conducted by various colleges
- ❖ Award received from the management of Muthayammal Engineering college for producing 100% result in the subjects

- ❖ Received "KANNADHASAN AWARD-2013" by Kaviyarasar Kalai Tamil Sangam, Paramathi-Vellur, for the contribution towards Tamil on 08.12.13.
- ❖ Given speech on "VETRI NICHAYAM" in NSS camp of Muthayammal Engineering college was conducted at Pudupalayam and Jedarpalayam
- Motivated the students to carry out various projects and won prizes in various science and technology exhibitions
- ❖ Published a PPT on Embedded System Basics in slide share website (Web Link: http://www.slideshare.net/murugan_m1/embedded-system-basics Total downloads=8,590, Total Views= 1,81,896 as on 07.03.14)
- ❖ Published few lab manuals also in slide share website
- ❖ My name is added in Marquis Who's Who in Science and Engineering 11th Edition in the year 2011-2012

References

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DECLARATION

I declare that the information given is true and correct to the best of my knowledge.

Place: Nekemte, Oromia, Ethiopia.

Date: 12.01.2016 Dr.M.Muruganandam