



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Name : E.MAHESWARI

Designation : ASSOCIATE PROFESSOR

Email : maheswari.eee@sairamit.edu.in

Qualification : M.E (Ph.D)

Specialization : Power Electronics and Drives

Research Interest : Power Electronics

Experience in years : Teaching UG PG Industry

No. of Workshop/Conferences/
FDP attended : Workshop Conferences FDP

No. of Workshop/Conferences/
FDP Organized : Workshop Conferences FDP

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|--------------------------|---|
| Professional Membership | IEEE,ISTE,IAENG |
| Publications | National : JOURNAL-1,CONFERENCE-2 |
| | International:JOURNAL-13,CONFERENCE-8 |
| | Book :-2 DESIGN OF ELECTRICAL MACHINES-SAMS PUBLICATIONS 2011 MEASUREMENT AND INSTRUMENTATION-SAMS PUBLICATIONS 2011 |
| Research Funded Projects | - |

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| Patents | 2 |
| Achievements | <p>1. Received the Certificate of Appreciation for mentoring the IEEE International Project Expo conducted in SCSVMV University, Kancheepuram on 20.02.2019.</p> <p>2. Received “Dr.APJ Abdul Kalam Award for teaching Excellence” in the year 2015 from MARINA LABS R&D Chennai.</p> <p>3. Received Rs. 2,000 Cash Award from Sri Sairam Institute of technology for Producing 100% in “Measurement & Instrumentation” Subject in the Year 2010.</p> <p>4. Received Rs. 2,000 Cash Award from Sri Sairam Institute of technology for Producing 100% in “SOLID STATE DRIVES” Subject in the Year 2017.</p> <p>5. Received Rs. 2,000 Cash Award from Sri Sairam Institute of technology for Producing 100% in “POWER ELECTRONICS” Subject in the Year 2018.</p> |
| Any Other Information | |

List of Publications:-

Journals

Papers published in SCI Journals:

E.Maheswari, Dr.A.Kavitha, “Comparative Analysis of ACM and GPWM controllers in Continuous input and output power Boost Converter” ,Journal of Control Engineering and Applied Informatics 22 (4), 61-70.2020.

Papers published in International Journals:

1. E.Maheswari,Dr.V.Balaji,Dr.T.Muthamizhan, “Solar Energy Based Laptop Charger Using Quadratic Boost Converter”, International Journal of Advanced Science and Technology Vol. 29, No. 6s, pp. 1731-1741, April 2020.

2. Dr.T. Muthamizhan,N. Logeshwari, **E. Maheswari**, “Investigations on On-Board Charger with Simultaneous Charging of Low Voltage Battery for Electrical Vehicles”, International Journal of Advanced Science and Technology Vol. 29, No. 6s, (2020), pp. 1721-1730.
3. Mohd Abdul Kareem, **Maheswari.E**, Pavani Parachuri, Durgam Srinivas, “Design of a Simplified 7 Level Inverter”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-12S2, October 2019.
4. **E.Maheswari**,Dr.V.Balaji, “Speed control of DC series motor using continuous input output power buck converter”, IJEECS , ISSN 2348-117X,Volume 6, Issue 11. November 2017.
- 5.**E.Maheswari**, Dr.V.Balaji, “Solar energy based smart room using Double boost Converter”, International journal of mechanical engineering and technology,Volume 8, Issue 6, June 2017.
6. **E.Maheswari**, Dr.V.Balaji,“Harmonic reduction in 3 phase voltage source inverter by 150 degree conduction”, [International Journal of Applied Theoretical Science and Technology](#),Volume 2, Issue 1, pp 1001-1006, January 2016.
7. Dr.V.Balaji, **E.Maheswari**, “[Labview Based PID Design Method For DC Motor Position](#)”, [International Journal of Applied Theoretical Science and Technology](#), Volume 2, Issue 6, pp1103-1106, March 2016.
8. P.Karthika,N.Shanthi,**E.Maheswari**, “Design of improved solar energy harvested hybrid active power filter for harmonic reduction , power factor correction and current compensation”,IJSTE, Volume 2,Issue 07,January 2017.
- 9.Dr. V.Balaji, **E.Maheswari** “Model Predictive Control Techniques for CSTR Using MATLAB “International Journal of Electrical Engineering and Technology” Vol -3, No 3, pp. 121 – 129 Oct-Dec 2012.
10. V.Balaji, **E.Maheswari** “Performance Investigation of Self-Lift and Re-Lift Luo Converter Topologies.”, Pacific Journal of Science and Technology, Vol – 12, pp. 17 – 24 May 2011(Spring).

11. V.Balaji, Dr. N.Vasudevan and **E.Maheswari**, “MATLAB Simulation for Continuous-Stirred Tank Reactor”, Pacific Journal of Science and Technology, Vol 9, pp 127 –131 June 2008(Spring).

12.V.Balaji, Dr. N.Vasudevan and **E.Maheswari**, “Model Based Predictive Control Using Fuzzy and Neural Network”, International Journal of Applied Engineering and Research, Vol 3, pp 279 – 286 ,March 2008.

13.V.Balaji, Dr. N.Vasudevan and **E.Maheswari**, “Model Based Predictive Control Using Fuzzy and Comparison with other Nonlinear MBPC Algorithms”, International Journal of Industrial Electronics and Control, March 2008.

National Journal:

1.Dr. V.Balaji, **E.Maheswari** “Model Predictive Control Strategy for Industrial Process” Bulletin of Electrical Engineering and Informatics, **Vol -1, No 3 , pp. 191 – 198 Sep 2012.**

Books Published:

1. Text book “**Design of Electrical Machines**” by Dr. V.Balaji and Mrs.E.Maheswari, Sams Publishers, Chennai, 2011.

2. Text book “**Measurement and Instrumentation**” by Dr. V.Balaji, Mrs.E.Maheswari and Ms.Gurvuvu, Sams Publishers, Chennai, 2011.

Conferences

Papers published in International Conferences:

1. Dr.Anathi Christy, R.G.Nirmala, **E.Maheswari**, K.PM.Y.V.Dathu, “3-Phase power quality improvement using ZETA converter”, ICSSIT-2022, Francis Xavier Engineering College.
2. S.Jadisha Rajesh, Dr.Anathi Christy, **E.Maheswari**, R.Brinda, “EV charging station using renewable system’s”, ICSSIT-2022. Francis Xavier Engineering College.

3.A Christy, DC Priscilla, E Maheswari, SS Dash, “[Performance of Photovoltaic-Based ZETA Converter Water Pumping Application](#)”, Sixth International Conference on Intelligent Computing and Applications, 21-26, Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1369), Springer, July 2021.

4.[Abirami Anandasabesan](#), [Soundarya Mahamani](#), [Haritha Sree Soundararajan](#) , [Shanthi Natarajan](#), [Maheswari Ellapan](#), [Revanya Devi Myla](#), “Simulation Modelling of Semi-automation Transport Vehicle” [International Conference on Smart Technologies in Computing, Electrical and Electronics \(ICSTCEE\)](#), 08 December 2020, Bengaluru.

5. **E.Maheswari**, Dr.A.Kavitha, “Bifurcation analysis in continuous input output Buck Boost converter”,IEEE Conference, 2016 International Conference on Computation of Power, Energy Information and Communication (ICCPEIC) Pg.No 490-498,978-1-5090- 0901-5/16 ©2016 IEEE,AdhiParasakthi College of Engineering.

6. V.Balaji, Dr. N.Vasudevan and **E.Maheswari**, “Multivariable Laguerre Based Indirect Adaptive predictive Control a Reliable Practical Solution for Process Control,” Proceedings of the International Conference on Trends in Intelligent Electronic Systems pp.396-400,SathyaBama University,Chennai,India, Nov12th - 14th 2007.

7. V.Balaji, Dr. N.Vasudevan and **E.Maheswari**, “Multivariable Model Predictive Control for Process Control,” Proceedings of the International Conference on Sensors And Related Networks, pp. 320- 326,VIT University, Vellore, India, Dec 12th -14th 2007.

8. V.Balaji, Dr. N.Vasudevan and **E.Maheswari**, “Neural Network Based on Model Control Strategy for the pH Process,” Proceedings of the International Conference on Digital Factory,pp. 274 – 277, CIT Coimbatore, India,Aug 11th -13th 2008.

Papers published in National Conferences:

1. **E.Maheswari**, A.Kavitha and G.Uma, “Hopf Bifurcation and chaos analysis in negative output Luo converter” Proceedings of the National Conference RITEE’07, pp.152-157, Sri Sai Ram Engineering College Chennai, India, March 13th 2007.

2.**E.Maheswari** and A.Kavitha and G.Uma“Bifurcation analysis in negative output Luo Converter” Proceedings of the National Conference NACPED’07,pp-30-35, Government College of Engineering, Thirunelveli, India, 4th April 2007.

List of Patent :

1. Patent Application no.202041047228, title “AN INTELLIGENT SMART STREET LIGHT SYSTEM WITH SAFETY TECHNOLOGY AND ENVIRONMENT MONITORING” Published on 29/10/2020.

2. Patent Application no 202141002310, title “Design and Development of High Efficient LUO Converter with Fuzzy Logic Controller For DC Micro Grid” published on 18.01.21.

Workshop / Conferences / FDP Attended:-

1. Participated in IEEE Sponsored 3 days National level workshop on “Design, Optimization and Analysis of Electrical Machines” from 8th May to 10th May 2019 at St. Joseph’s Institute of Technology, Chennai.

2. Attended the online workshop on “Design of Experiments” from 22nd April 2020 to 24th April 2020 conducted by JAER & HEXACUBE.

3. Two days International Workshop On “Power System Studies Using ETAP & Digsilent” in S.A. Engg College, Chennai, 4th and 5th May 2017

4. Renewable Energy and Applications”, Agni college of technology, Chennai, 19th August 2016.

5. One Day workshop on “Spectral analysis using MSO430 for power electronics applications”, VIT, 20th Feb 2016

6. Attended a workshop on “High Impact Teaching Skills” attested by Dale Carnegie Training & Associates, Inc Trainer and Wipro at Easwari Engineering College from 7th & 8th Dec 2009.

7. Attended DRDO sponsored two day national workshop on “ MATLAB and Labview For Electrical & Process Control Applications” organized by the Easwari Engg College from 17th to 18th Dec 2009.

8. Attended the Tutorial on “Control Systems Study through Matlab” at Vellore Institute of Vellore on 21 – 22nd Jan 2006.

FDP ATTENDED

1. 3 Days FDP on “Power Converters for DC microgrid” from 4.6.2020 to 6.6.2020,SSN COLLEGE OF ENGINEERING.
2. 5 Days ATAL FDP on “ Artificial Intelligence from 21.9.2020 to 25.9.2020,Vellore Institute of Technnology.
3. 5 Days ATAL FDP on “ "Sensors Technology" from 17.8.2020
4. Attended the NPTEL 8 weeks FDP course on “DC Microgrid” from July to September 2019 and successfully completed the course with Silver & Elite.
5. Attended the NPTEL 8 weeks FDP course on “Advance Power Electronics and Control” from Jan to Mar 2019 and successfully completed the course.
6. Attended the NPTEL 8 weeks FDP course on “Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink” from Aug 2018-Oct 2018 and successfully completed the course with ELITE.
7. Three days FDP on “Power electronics for renewable energy systems”, Tagore Engineering College, 27th to 29th Dec 2018.
8. Attended the NPTEL 12 week’s course on “Control System” from Jan to Apr 2018 and successfully completed the course
9. Three days FDP on “Power electronics for renewable energy systems”, Tagore Engineering College,18th to 20th Jan 2018.
10. Seven Days FDP On “EE6007 Micro Electro Mechanical System Design” in Sriram Engineering College, Perumalpattu, From 08.05.2017 To 14.05.2017.
11. Three Days FDP On Electromagnetic Theory And Control Systems, Sree Sastha Institute Of Engineering And Technology from 19.6.17 to 21.6.17.
12. Participated in AICTE sponsored SDP on “Intelligent control in electrical appliances” conducted by Easwari Engineering College from 26th May to 9th June 2009.
13. Attended the Training programme on “Quality Management System and Audit training” at Creative Management Consultant, Chennai. On 3rd– 4th Nov 2007.
14. Attended the “Induction Training Programme for Engineering College Teachers” at NITTTR, Chennai on 19th Nov – 1st Dec 2007.

Workshop / Conferences / FDP Organized:-

1. Organized the Guest Lecture on “Applications of Renewable Energy Systems” on 15.09.2021 in Dept of EEE,Sri Sairam Institute of Technology.
2. Organized the webinar on “Sustainability in Energy” on 05.06.2021 in Dept of EEE,Sri Sairam Institute of Technology.
3. Organized Workshop on “IoT application on smart grid” for III Yr EEE students in Sri Sairam Institute of Technology from 5.3.2019 to 6.3.2019
4. .Organized the 10th national level technical symposium WARROS’2018 in Sri Sairam Institute of Technology on 11th September 2018.
5. Organized Entrepreneurship Awareness Camp (EAC) sponsored by DST in Sri Sairam Institute of Technology from 9.3.2016 to 11.3.2016.

6. Organized SDP on “Intelligent control in electrical appliances” conducted in Easwari Engineering College from 26th May to 9th June 2009.