

Name	Dr.R.Jeyabharath			
Department	EEE			
Qualification	B.E.,M.E.,Ph.D			
Area of Specialization	Special Machines, Embedded System			
Date of Joining (KSR IET)	01-07-2011			
Experience (as on 31.05.2020)	Teaching:17 yrs	Industry:00	Others: 00	
Number of Papers Published	National Journals : 00		International Journals : 36	
Number of Papers Presented	National Conferences : 04		International Conferences : 16	
Books Published	National Publisher : 00		International publisher : 00	
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#### **Publications (International Journals)**

1. Veena P, Indragandhi V, Jeyabharath R,(2014) “ Review of grid integration schemes for renewable power generation system” International journal of renewable and sustainable energy reviews , Elsevier publishers, pp 628- 641
2. P.Veena, V.Indragandhi, R.Jeyabharath, (2013)“An Interleaved Soft Switching Boost Converter with Bidirectional Full Bridge Inverter for Photovoltaic power generation” Research Journal of Applied Sciences, Engineering & Technology, Vol. 6. No. 22, pp.4204-4210, 2013
3. V.Indragandhi, P.Veena, R.Jeyabharath, (2013), “Photo Voltaic Power Generation using Interleaved soft Switching Boost Converter- cascaded H-Bridge Inverter” International Review of Modeling and Simulations, Vol. 6. No. 2, pp. 329-335, 2013.
4. Manojkumar P, Veena Parasunath & Jeyabharath Rajaiah,(2019) ‘Sustainable development of universal electronic control unit for fuel saving in automobiles to

protect the environment pollution', Journal of electrical Engineering, Vol 19, No.2 pp.152-164

5. Ravivarman, S, Jeyabharath, R & Veena P 2016, 'Analysis and Design of Single Switch Hybrid Step-up Converter', Circuits and Systems, vol. 7, no. 4, pp. 211-221.
6. Ravivarman, S, Jeyabharath, R & Veena, P 2016, 'A high step-up boost converter integrated with voltage multiplier cell', International Journal of Innovations in Engineering and Technology, vol. 7, no. 1, pp. 626-632.
7. Ravivarman, S, Jeyabharath, R & Veena, P 2016, 'A high step-up hybrid dc-dc converter with reduced voltage stress for renewable energy applications', World Applied Sciences Journal, vol. 34, no. 7, pp. 871-877.
8. Jeyabharath Rajaiah, Velmurugan Ramar & Veena Parasunath 2016, 'Harmonic Minimization in Seven-Level Cascaded Multilevel Inverter Using Evolutionary Algorithm', Circuits And Systems, Scientific research publishing, vol. 7,no.9,19th July 2016, pp.2309-2322. (ISSN 2153-1285) (Updated list of Journals 2016).
9. Jeyabharath, R, Velmurugan, V R. & Veena, P 2016, 'Harmonic minimization in seven level cascaded multilevel inverter using Selective Harmonic Elimination PWM Technique', Circuits And Systems, Scientific research publishing.(Accepted)
10. Srihari.T, Dr.Jeyabharath.R, Dr.P.Veena, "Evolutionary Computing Technique for Torque Ripple Minimization of 8/6 Switched Reluctance Motor", Advances in Natural and Applied Sciences, Vol. 10, Issue 5, pp.6-14, June 2016, ISSN: 1995-0772.
11. Srihari.T, Dr.Jeyabharath.R,Dr.P.Veena, "ANFIS Based Space Vector Modulation-DTC for Switched Reluctance Motor Drive ", Circuits and Systems, Vol. 7,pp. 2940-2947, May 2016, ISSN: 2153-1285.
12. N. Arulmurugaselvi, Dr. R. Jeyabharath, Dr. P. Veena, "An Efficient Feature Selection And Fuzzy Neuralnetwork With Content Based Image Retrieval To Diagnosis Mammogram Breast Cancer", International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 3, December 2016 (1631-1645).
13. Arulmurugaselvi.N.,Jeyabharath.R., Veena.P, "Content Based Mammogram Image Retrieval Using Particle Swarm Optimization And Hybrid Classifier", Asian Journal Of Research In Social Sciences And Humanities, Asian Research Consortium. (Accepted)
14. P. M. Dhanasekaran<sup>1</sup>, Parasunath Veena, Rajaiah Jeyabharath, "New DCM Operated Single Phase Bridgeless Cuk Derived Converters for Power Factor Correction", Journal of Circuits and Systems, 2016, 7, 2176-2188, DOI : 10.4236/cs.2016.79189
15. P. M. Dhanasekaran, R. Balamurugan, P. Veena, " New Single Phase Bridgeless CUK Converter Topology for Power Factor Enhancement Based on Fuzzy Logic Control" Journal of Circuits, Systems, and Computers Vol. 24, No. 7 (2015). DOI: 10.1142/S0218126615501029
16. P.M.Dhanasekaran, P.Veena, R.Jeyabharath, "Improved Power Factor Correction for BLDC Drive Using Fuzzy Logic Controller", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 7, July 2016, DOI:10.15680/IJIRSET.2016.0507133.
17. Kulandaivel Velusamy, Veena Prasunath and Jeyabharath Rajaiah, 2016. "Fuzzy Controlled Bridgeless Cuk Converter Fed Switched Reluctance Motor", Asian

**Journal of Information Technology, pp 4662-4668.**

- 18. Kulandaivel V, Veena P, Jeyabharath R, 2016. "Power Factor Enhancement in Bridgeless LUO Converter Fed Switched Reluctance Motor Using Fuzzy Controller", International Journal of Innovative Research in Science, Engineering and Technology, pp 12526-12532.**
- 19. R.Jeyabharath, " Safety and Security in RFID based Multilevel Vehicle Parking System", International Journal in Research and Development, Vol.3, no.1, Jan 2016**
- 20. Veena P, R.Jeyabharath and Rajaram M. (2010), 'Performance Improvement of Direct Torque Control for Switched Reluctance Motor using Neuro-fuzzy Controller', International Journal of Control and Intelligent Systems, Actapress Publishers, Canada. Vol. 38, No. 3, 2010 (paper no. 201-2118)**
- 21. Jeyabharath R, Veena P and Rajaram M. (2010), 'Modeling and Simulation of Direct Torque Control for Multi Phase Switched Reluctance Motor Drive', International Journal of Modeling And Simulation, Actapress Publishers, Canada. Vol. 30. No.2. pp.1-8. 2010 (paper no. 205-5136)**
- 22. Jeyabharath R, Veena P and Rajaram M. (2008), 'A High Performance DTC Strategy for Torque Ripple Minimization Using Discrete Space Vector Modulation Techniques for SRM Drive' International Journal of Applied Engineering Research, IJAER 2008, Vol.4, No.3, pp 371-379**
- 23. Veena P, Jeyabharath R and Rajaram M(2009) "Neuro Fuzzy based direct torque control for Switched reluctance motor drive" InterntionalJournal of ACTA ELECTRO TECHNICA , Vol 50 , no 3, 179-184.**
- 24. Guru Ramalingam M, Veena P, Jeyabharath R (2014) "Test pattern generation using BIST schemes" International Journal of Innovative Research in Science Engineering and Technology, IJIRSET, Vol 3, No 1, Feb 2014, pp.1095 -1101.**
- 25. Jeyabharath R, Rajasekaran C & Veena P (2014), 'Enhanced Data Acquisition System Using Embedded Ethernet for Industrial Applications', Research Journal of Applied Sciences, Engineering and Technology. vol. 8, Issue 16. PP. 1814-1823**
- 26. Rajasekaran, C, Jeyabharath, R & Veena, P (2014), 'Design and Development of a FPGA based High Speed Data Acquisition System', International Journal of Applied Engineering Research. Volume 9, Number 23 pp. 19977-19990.**
- 27. Rajasekaran C, Jeyabharath R & Veena P (2014), 'Hardware-Software Reconfigurable Techniques for Wireless Sensor Network', Research Journal of Applied Sciences, Engineering and Technology. vol. 8, Issue 17. pp.1855-1862**
- 28. M. Murugan, R.Jeyabharath and P.Veena,(2014) "Stability Analysis and Parameter Design of BLDC Drive Utilizing Root-Locus Approach", Journal of Theoretical and Applied Information Technology, Vol.61, March 2014**
- 29. M.Murugan, R.Jeyabharath and P.Veena, (2013) "Stability Analysis of BLDC Motor Drive based on Input Shaping" , International Journal of Engineering and Technology, Vol 5, No 5, pp 4339-4348, October 2013**
- 30. M.Murugan, R.Jeyabharath and P.Veena, (2012) "An Efficient Active Clamp Resonant DC Link for BLDCM Drive Systems", European Journal of Scientific Research, Vol. 88, No 4, pp.475-483, October 2012.**
- 31. Veena P, Jeyabharath R, "An Improved Direct Torque Control Using Intelligent Technique for Switched Reluctance Motor Drive" International Journal of Mathematics and Soft Computing Vol.5, No.1. (2015), pp 197-205**

32. Veena P, Jeyabharath R, "ANFIS Based Space Vector Modulation-DTC for Switched Reluctance Motor Drive" International Journal of Mathematics and Soft Computing Vol.5, No.1. (2015), pp. 187-196
33. Veena P Jeyabharath R, and Rajaram M. (2009), 'Torque Ripple Minimization in Direct Torque Control Using Fuzzy Logic for Switched Reluctance Motor Drive' International Journal of Systemics, Cybernetics and Informatics, IJSCI -09. Jan-09.No.1 pp.032-03
34. Veena P, Jeyabharath R and Rajaram M(2009) " An improved direct torque control using intelligent techniques for switched reluctance motor drive" IETECH journal of electrical Analysis Vol 3, No.1, pp 15-19.
35. Rajasekaran C, Jeyabharath R and Veena P "FPGA SoC Based Multichannel Data Acquisition System with Network Control Module" Circuits and Systems Vol 8(2017),Issue 2,2017
36. "Effective Energy Management in Electric Vehicles using High-Power Bidirectional DC-DC Converter" Asian Journal of Research in Social Sciences and Humanities, Vol 7(2017), No.1, pp 731-743.

#### **Publications (International Conferences)**

1. R.Jeyabharath, P.Veena (2020) "Artificial Intelligence based Traffic Control System for Emerging Vehicles", International Conference on Engineering and Technology (ICET 2020).
2. R.Jeyabharath (2016), " An improved Direct Torque Control using Intelligent Technique for Switched Reluctance Motor Drive" International conference on Emerging Trends in Science, Engineering and Technology, March 2016.
3. R.Jeyabharath (2016), "Safety and Security in RFID based Multilevel Vehicle Parking System", International Conference on computer, Electrical, Electronics, Management and Information Technology, March 2016
4. R.Jeyabharath (2015), "Modeling and Design of SR Motor Speed Control with FLC using State Space Technique", 2<sup>nd</sup> international Conference on Engineering Technology and Science, March 2015.
5. R.Jeyabharath (2015), "Intelligent Vehicle Identification and Speed Estimation", International Conference on Advanced Computing, Control systems, Machines, and Embedded Technology, ICACT, March 2015
6. R.Jeyabharath, (2014) " Implementation and Performance Analysis of BLDC motor using FLC Controller" International Conference on Engineering Technology and Science, Feb 2014.
7. R.Jeyabharath M.Murugan, , "Analysis and Design of Fast Response BLDC Drive System", International Conference on Computation of Power, Energy, Information and Communication", Adhiparasakthi Engineering College, Melmaruvathur 18-19, April 2012.
8. R.Jeyabharath M.Murugan, ,S.Manivel " Selection and Modelling of PMBLDC motor for Torque Ripple Minimization", International conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing, Karunya University, 1-2, March, 2013, pp no. 2757-2761
9. R.Jeyabharath M.Murugan, ,Arjun Mohanlal " Speed and Rotor position

Estimation of BLDC motor using Extended Kalman Filter”, International conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing, Karunya University, 1-2, March, 2013, pp no. 1714-1718.

10. R.Jeyabharath M.Murugan, , ArjunMohanlal “ Speed and Rotor position Estimation of BLDC motor using Extended Kalman Filter”, International Conference on Computation of Power, Energy, Information and Communication, Adhiparasakthi Engineering College, Melmaruvathur, 17-18 April 2013.
11. Veena P Jeyabharath R, Rajaram M and Sivanandam S.N (2009). ‘Genetic Neuro Controller Based Direct Torque Control For Switched Reluctance Motor Drive’ Proceedings of IEEE International Conference on Man-Machine Systems (ICoMMS 2009) 11 – 13 October 2009, Batu Ferringhi, Penang, MALAYSIA pp. 2B5-1–2B5-6.
12. Veena P, Jeyabharath R, Rajaram M. and Sivanandam S.N (2009). ‘A High Performance DTC Strategy for Torque Ripple Minimization Using duty ratio control for SRM Drive’ Proceedings of IEEE International Conference on Man-Machine Systems (ICoMMS 2009) 11 – 13 October 2009, Batu Ferringhi, Penang, MALAYSIA pp. 2B9-1 – 2B9-6.
13. Veena P, Jeyabharath R and Rajaram M. (2008), ‘A Fuzzy Logic Approach To Direct Torque Control Of Switched Reluctance Motor Drive’ Proceedings of IEEE International Conference on power electronics drives & power systems, Power Coin-2008, march 20<sup>th</sup> & 21<sup>st</sup> 2008, pp.18-22.
14. Jeyabharath R, Veena P and Rajaram M. (2006), ‘A Novel DTC Strategy of Torque and Flux Control for Switched Reluctance Motor Drive’ Proceedings of IEEE International Conference PEDES-2006, IEEE New Delhi Section. 12-15 Dec 2006, pp.132-136.
15. Veena P , Jeyabharath R, and Rajaram M. ((2006) “A new Scheme of Torque and Flux Control for Switched Reluctance Motor Drive” Proceedings of IEEE India International Conference on Power Electronics, IICPE-2006, 19-21 dec 2006, pp 269 - 273
16. Jeyabharath R, Veena P and Rajaram M. (2005), ‘A New Converter Topology for Switched Reluctance Motor Drive’ Proceedings of IEEE International Conference Indicon-05. IEEE Madras Section. 11-13 Dec.2005, pp. 580-584.

#### **Publications (National Conferences)**

1. R.Jeyabharath, “ IOT based Remote Braking System and Security Enhancement for Automobiles”, Proceedings of National Conference on Emerging Trends in engineering and Technology, 16<sup>th</sup> March 2019
2. R Jeyabharath, “ Air ventilation system for indoor area using forced convection”, Proceedings of 4th National conference on Recent Trends in Electronics Engineering (NCRTEC2k18)
3. R Jeyabharath, “Biometric Strategy measure for Enhanceing security in Bank System”, National conference on Recent Trends in Engineering and Technology, March 2014
4. R Jeyabharath,” A Direct Torque Control of Switched Reluctance Motor Drive”, National Conference on Recent Trends in electrical Engineering (RTEE-05), August 2005.

**Patents Filled : 02**

S.No	Patent Application No	Title of Invention	Date of filing	Date of Published
1.	202041025188	A Novel Method for Detection of Quality of Apples using edge Detection Approach	15 <sup>th</sup> June 2020	Yet to publish
2.	202041012783	System for Automatic Fog Cleaner for VLSI Cooler	24 <sup>th</sup> March 2020	05 <sup>th</sup> June 2020

**Books /Instruction materials/monograms published**

S.No	Title of the Book	Author(s)	Name & Address of the Publisher	Year of Publishing
1.				

**Funded Research Projects**

S.No	Title of the Project	Name of the Funding Agency	Amount Sanctioned (Rs.)	Role
1.	MODROBS- Control And Instrumentation Lab with Virtual Instruments	AICTE	13,12,034	Coordinator

**Funded Programmes Organized (Seminar/Conference/Workshop/FDP/STTP/Other)**

S. No.	Date		Topic / Title	Funding agency and Amount Sanctioned
	From	To		

<b>1.</b>	06.05.2013	16.05.2013	Research and Reconfigurable Embedded System for Medical Science	AICTE 3.75 Lakhs
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#### **Consultancy Activities (Industry)**

<b>S.No</b>	<b>Title of the Project</b>	<b>Name of the Company</b>
<b>1.</b>		

#### **Training Offered**

- **NIL**

#### **Membership in Professional Bodies**

- **Indian Society for Technical Education (ISTE) - Life Member (LM 51640)**
- **IEEE - 94145541**

#### **Subject Links**

- **NIL**