

**Dr.S.MUTHULAKSHMI, M.E.,Ph.D.,**

Assistant Professor -II - EEE Department

Velammal College of Engineering and Technology, Madurai

[sml@vcet.ac.in](mailto:sml@vcet.ac.in)

---

**Educational Qualification:**

S.No	Degree	Year	Subject	University/Institution
1.	Ph.D	2016	ICE	Anna university
2.	M.E.	2005	AE	Anna university
3.	B.E.	2003	EEE	Madurai Kamaraj University

**Experience in Years:**

Sl. No.	Designation	Institution	Duration		Experience (in years)
			From	To	
1.	Assistant Professor	Velammal College of Engineering and Technology, Madurai	19.01.2024	Till date	-
2.	Associate Professor	Syed Ammal Engineering College	01.07.2012	28.04.2023	11 yrs 9 months
3.	Assistant Professor	Syed Ammal Engineering College	22.07.2011	31.06.2012	2 yrs
4.	Sr. Lecturer	Syed Ammal Engineering College	22.07.2008	21.07.2011	3 yrs
5.	Lecturer	Syed Ammal Engineering College	21.07.2005	21.07.2008	3 yrs
		TOTAL			17Years and 09 Months

### Interested Research Areas:

- Power Electronics and Drives
- Special electrical machines
- Solid state drives
- Electrical machines

### Publications Details:-

#### 1. Patent Journal Publication Details:

Sl.No	Title of the Invention	Application No	Status
1.	Performance Characteristics Of Self Exc ited Cage induction Generator Under Varying Load And Speed Conditions	20204 1 0539 14 A	Published
2.	AD-HOC Network with Intel Galileo GEN2 based power demand control	202041033566 A	Published

### Copyright

- **Electrical machines –I Lab manual**

### Reviewer

- Act as a reviewer in IEEE conference ICACCCT '16 at SAEC ,Ramanathapuram on May 25- 27,2016

## JOURNAL PUBLICATIONS

### International Journals

1. **Muthulakshmi, S & Dhanasekaran, R**, 2016, 'A new Front end Capacitive Converter Fed Switched Reluctance Motor for Torque Ripple Minimization', Circuits and Systems, vol. 7, pp. 585-595, ISSN: 2153-1293. DOI: 10.4236/cs.2016.75050. IF – 0.93.
2. **Muthulakshmi, S & Dhanasekaran, R**, 2015, 'A New Switched Reluctance Motor Drive using Passive Network for Marine Propulsion', Indian Journal of Geo Marine Sciences, vol. 44, no. 11, pp. 1807-1814, ISSN: 0379-5136 ,IF – 0.29.
3. **Muthulakshmi, S & Dhanasekaran, R**, 2015, 'Speed Control of Switched Reluctance Motor Using Soft Computing Technique for Industrial Applications', Journal of Scientific and Industrial Research, vol. 75, no. 5, pp. 285-288, ISSN: 0975-1084, IF – 0.5.
4. **Muthulakshmi, S & Dhanasekaran, R**, 2015, 'Performance Evaluation in Speed Control of Classic Converter fed Switched Reluctance Motor Using PI controller', ARPN Journal of Engineering and

Applied Sciences, vol. 10, no. 6, pp. 2643-2649, ISSN: 1819-6608, IF – 0.21.

5. **Muthulakshmi, S** & Dhanasekaran, R, 2015, ‘Simulation and Analysis of Soft Switched Boost Converter for Switched Reluctance Motor’, International Journal of Applied Engineering Research, vol. 10, no. 17, pp. 13378-13382, ISSN: 0973-4562, IF – 0.1.
6. **Muthulakshmi, S** & Dhanasekaran, R, 2015, ‘Numerical Analysis Of Dynamic Characteristics Of Switched Reluctance Motor By Varying Control Parameters’, International Journal of Applied Engineering Research, vol. 10, no. 5, pp. 4331-4335, ISSN: 0973-4562, IF – 0.1.
7. **Muthulakshmi, S** & Dhanasekaran, R, 2014, ‘Performance Analysis of Current Controlled Three Phase Switched Reluctance Motor’, International Journal on Recent Trends In Engineering Technology, vol. 10, no. 2, pp. 137-146, DOI: 01.IJRTET.10.2.1326, IF – 0.1.

### International Conferences

1. **S Muthulakshmi**, ‘Home Automation using Arduino and Bluetooth module’, International conference on Emerging trends in Engineering and Technology, 29<sup>th</sup> & 30<sup>th</sup> April, 2022.
2. **S Muthulakshmi**, S Aiswariya, M Senthilkumar, GS Naganathan, S Sivakarhika”Investigation of electromagnetic characteristics of Switched Reluctance motor for photovoltaic applications” Materials Today: Proceedings, 2021.
3. S Aiswariya, **S Muthulakshmi**, GS Naganathan, M Senthilkumar, B Rasheka “Design and simulation of a soft switched converter for renewable energy systems”, Materials Today: Proceedings, 2021
4. M Senthilkumar, GS Naganathan, **S Muthulakshmi**, M Pauljeyaraj, S Aiswariya, T Arun Prasath “Design and development of intelligent controller for speed control of special electrical motor” Materials Today: Proceedings, 2021.
5. GS Naganathan, M Senthilkumar, S Aiswariya, **S Muthulakshmi**,”Internal fault diagnosis of power transformer using artificial neural network”, Materials Today: Proceedings, 2021.
6. **Muthulakshmi, S** & Dhanasekaran, R, 2016, ‘Intelligent controller based speed control front end asymmetric converter fed switched reluctance motor’, IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, pp. 500-505.
7. **Muthulakshmi, S** & Dhanasekaran, R, 2015, ‘A New Modified Switched Reluctance Motor Drive Using Passive Network For Torque Ripple Minimization’, IEEE International Conference on Communication and Signal Processing (ICCSP), Melmaruvathur, Tamilnadu, India, pp. 721–726. DOI: 10.1109/ ICCSP.2015.73322581
8. **Muthulakshmi, S** & Dhanasekaran, R, 2014, ‘A New Soft Switched Boost PFC Converter For Special Electrical Machines’, IEEE International Conference on Advanced Communication Control and Computing Technologies(ICACCCT), Ramanathapuram, Tamilnadu, India, pp. 416-420. DOI: 10.1109/ ICACCCT.2014.7019477.
9. **Muthulakshmi, S** & Dhanasekaran, R, 2015, ‘Speed Control of Switched Reluctance Motor

Using PI controller with Modified Asymmetric Converter- Industrial Application', International Conference on Interdisciplinary Research in Electronics and Instrumentation Engineering(ICIREIE), Coimbatore, Tamilnadu, India, pp. 49-54.

10. **Muthulakshmi, S & Dhanasekaran, R, 2013, 'Torque Response Of Switched Reluctance Motor fed from Different Switching Topology under HCC', Elsevier International Conference on Control, Communication and Power Engineering ,Bangalore, Karnataka, India, pp. 134-146.**

#### **Academic achievements:**

- **Coordinator** for the domain wise classes -Technical talk on challenges and Modern trends in Power Converter on 01.12.22
- **Co-Coordinator** for the domain wise classes -Technical talk on Industrial Robot Automation systems and industry 4.0 on 28.10.22
- **Co-Coordinator** for the domain wise classes -Technical talk on Optoelectronics on 12.11.22
- **Co-Coordinator** for the workshop on Introduction to MATLAB On 16 th& 17<sup>th</sup> March 2019.
- **Resource person on 2.12.15 for the Anna University sponsored FDP on Solid state Drives conducted from 30.11.15 to 06.12.15 at SAEC, Ramanathapuram.**
- **Resource person on 07.06.16 for the Anna university sponsored FDP on Power electronics conducted from 30.11.15 to 06.12.15 at SAEC, Ramanathapuram**
- **Chaired a technical session** for the IEEE International Conference on Advanced Communication, Control & Computing Technologies **ICACCCT** at SAEC, Ramanathapuram on May 8-10, 2014
- **Chaired a technical session** for the IEEE International Conference on Advanced Communication, Control & Computing Technologies **ICACCCT** at SAEC, Ramanathapuram on Aug 23-25, 2012.
- **Internship:** 30 days Internship on "ELECTRIC VEHICLE DESIGN" at Pantech E Learning Pvt .Ltd, Chennai. From 20.06.2022 to 19.07.2022.
- **NPTEL certified course** –Fundamentals of electrical Engineering-2019

#### **Responsibilities Held:**

- NIRF Coordinator
- AISHE Coordinator
- SII Coordinator
- Internal Exam cell Coordinator
- NBA Criteria 4 department Coordinator
- NAAC Criteria 2 department coordinator
- Class-in-Charge and Project Coordinator
- Counselor in charge
- Hostel Committee Member
- Library Committee member
- Discipline Committee Member
- QIC Committee Member

## 6. Google Scholar report:



Dr.S.Muthulakshmi Sugumar

FOLLOW

Unknown affiliation

No verified email

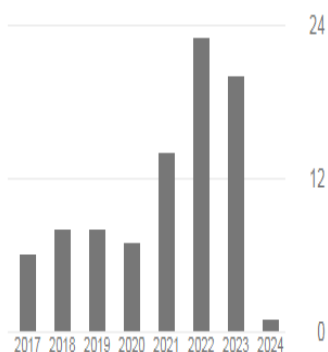
[switched reluctance motor](#) [power electronics and drives](#)

<input type="checkbox"/>	TITLE	CITED BY	YEAR
<input type="checkbox"/>	<a href="#">Improvement of speed control performance in BLDC motor using fuzzy PID controller</a> KS Devi, R Dhanasekaran, S Muthulakshmi 2016 International Conference on Advanced Communication Control and ...	30	2016
<input type="checkbox"/>	<a href="#">WITHDRAWN: Internal fault diagnosis of power transformer using artificial neural network</a> GS Naganathan, M Senthilkumar, S Aiswariya, S Muthulakshmi, ... Materials Today: Proceedings	21	2021
<input type="checkbox"/>	<a href="#">Simulation modelling and fault analysis of switched reluctance motor</a> SS Priya, R Dhanasekaran, S Muthulakshmi 2016 International Conference on Advanced Communication Control and ...	8	2016
<input type="checkbox"/>	<a href="#">Intelligent controller based speed control of front end asymmetric converter fed switched reluctance motor</a> S Muthulakshmi, R Dhanasekaran 2016 International Conference on Advanced Communication Control and ...	6	2016

Cited by

[VIEW ALL](#)

	All	Since 2019
Citations	101	73
h-index	5	4
i10-index	2	2



Co-authors

[EDIT](#)

No co-authors