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# SAI RAM INSTITUTE OF TECHNOLOGY

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Sai Leo Nagar, West Tambaram, Chennai - 44. www.sairamit.edu.in

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name : G. Saritha

Designation : Assistant Professor –II Date of Joining: 29.06.2010

Email : saritha.ece@sairamit.edu.in

Qualification : M.E.,(Ph.D)

Specialization : Power Electronics and Drives

Research Interest : Embedded systems

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



Professional Membership	IAENG, LIFE MEMBER IN ISTE (LM6870)
Publications	National : -
	International: 8
	Book : -
Research Funded Projects	-
Patents	-
Achievements	<ul style="list-style-type: none"><li>• Obtained 100% result in transmission lines and waveguides</li><li>• Obtained 98% result in Optical communication.</li><li>• Obtained 94% in Electromagnetic fields</li><li>• Obtained 94% in communication engineering</li></ul>
Any Other Information	<ul style="list-style-type: none"><li>• Got NPTEL Elite certificate on outcome based pedagogic principles for Effective Teaching.</li></ul>

## List of Publications:-

### International Journals:

1. G.Saritha., "Landmine Detection And Discrimination Of Ground Surface Using Multisensor Robot", International Journal of Advanced Research in Science And Engineering, volume No.07,special issue No.(02),March 2018. ISSN NUMBER: 23198354.
2. G.Saritha., "An IOT Enabling Smart City Services Using Pic 16f877a Microcontroller", International Journal of Advanced Research in Science And Engineering,volume No.07,special issue No.(02),March 2018. ISSN NUMBER: 2319835
3. Saritha, G., Kirubakaran, D. "Improved Performance of Fuzzy Logic Controller based SEPIC for High Frequency DC Conversion",978-I-5090-4324-8/17, 2017-IEEE Explore 15 February 2018.
4. T. Saravanan, V. Srinivasan and G. Saritha., "Basic Compensation Principle and Reference Current Generation" ,2015, Indian Journal of Science and Technology, Vol 8(32), DOI: 10.17485/ijst/2015/v8i32/IPL0975, November 2015.
5. Saritha, G., Kirubakaran, D. "Fuzzy logic controller for the positive output triple-lift split inductor-type boost converter ",2014,International Journal of Applied Engineering Research ISSN 0973-4562,Volume 9,Number.22 , pp. 12299-12317.
6. Saritha, G., Kirubakaran, D. "Comparative Study Of Voltage Mode Control And Current Mode Control",2015,International Journal of Applied Engineering Research ISSN 0973-4562,Volume 10,Number.75 , pp. 310-314.
7. Saravanan, T., Saritha, G., "Analysis of chopper FED DC drive system with fuzzy logic speed control ",2014,Middle - East Journal of Scientific Research 20 (11) , pp. 1566.
8. Saravanan, T., Saritha, G., " Buck converter with a variable number of predictive current distributing method ",2013,Indian Journal of Science and Technology 6 (SUPPL5) , pp. 4583.

### Workshop/Seminar/FDP: (List)

1. Attended FDP on "**Digital Image Processing**", on 10<sup>th</sup> to 22<sup>nd</sup> December 2007 SRR Engineering College, Chennai
2. Attended national level seminar on "**Embedded Systems**" on 1<sup>st</sup> March,2008 at Dhanalakshmi Srinivasan Engineering College , Perambalur.
3. Attended Workshop on "**FPGA based VLSI design**", 5<sup>th</sup> & 6<sup>th</sup> September 2008 at 5<sup>th</sup> & 6<sup>th</sup> September 2008.
4. Attended a national Workshop on "**Wireless Communication And Radiating Systems** " on March-21 & 22-2011 at Sri Sai Ram Engineering, Chennai
5. Attended national seminar on "**Current Trends And Future Role Of Renewable Energy**" on 8<sup>th</sup> and 9<sup>th</sup> October 2013 at Sri Sai Ram Engineering College.
6. Attended STTP on, "**RF Engineering For Wireless Networks** ",on 6<sup>th</sup> to 11<sup>th</sup> may 2013 at Valliammai Engineering College,Chennai
7. Attended Workshop on "**An overview of ORCAD** " on 3<sup>rd</sup> March 2014 at Sri Sairam

Institute of technology, Chennai

8. Attended STTP on, “ **Power system networking optimization of different FACTS control parameter in power system network**” on 14<sup>th</sup> to 20<sup>th</sup> July 2014 at Adhi parasakthi engineering college, Chennai.
9. Attended One day FDP on “**Electromagnetic Field theory & transmission lines**” on 25 & 26 June 2015 at Sri SaiRam Institute of Technology, Chennai.
10. Attended 7 days FDP on “EC-6703-EMBEDDED AND REAL TIME Systems”, from 6.06.2016-13.06.2016 Organized by Anna University at Sri Sai Ram Engineering College.
11. Attended one day workshop on “Glimpses on Effective Research and Proposal Writing”, on 20.10.2016 at St.Joseph Institute of Technology, Chennai
12. Attended 7 days FDP on “**EC6702-Optical Communication and Networks**” from 31st May to 7th June 2017, Organized by Anna University at Sri Sai Ram Engineering College.
13. Attended two days FDP on “**Modern Teaching and Learning Methodologies for Competency Development**” organized by department of ECE, held on 3rd and 4th May 2017 at Jeppiar Maamallan Engineering College.
14. Attended one day Workshop on “**REDHAT (open source) Technology & Industrial Adaptation** ”, held during 2<sup>nd</sup> March 2018 at SSIT, Chennai

#### **National Conference**

1. Presented a paper in the National Conference titled “An IOT Enabled Smart City Services” held on March 7<sup>th</sup> 2018 at Sri Sairam Institute of Technology, Chennai.
2. Presented a paper in the National Conference titled “Landmine Detection And Temperature Analysis Using Multisensor Robot” held on March 7<sup>th</sup> 2018 at Sri Sairam Institute of Technology, Chennai
3. Presented a paper in the National Conference titled “Wireless Crane For Smart Cultivation” held on 21<sup>ST</sup> APRIL 2017 at Sri Sairam Institute of Technology, Chennai
4. Presented a paper in the National Conference titled “Various controlled technologies for DC-DC converters .” held on 27<sup>th</sup> to 29<sup>th</sup> November 2013 at Sri Sairam Institute of Technology, Chennai
5. Presented a paper in the National Conference titled “Variable number of active base interleaved buck converter with a predictive current sharing system” held on 21<sup>st</sup> April 2011 at Sri Sairam Institute of Technology, Chennai
6. Presented a paper in the National Conference titled “Multi- Frequency DC-DC buck converter for voltage regulator model for large loads” held on 12<sup>th</sup> to 14<sup>th</sup> October 2011 at Sri Sairam Institute of Technology, Chennai
7. Presented a paper in the National Conference titled “An Innovative Hardware Architecture For Nanorobot Application In cerebral Aneurgem” held on 29<sup>th</sup> March 2008 at Dhanalakshmi Srinivasan engineering college.
8. Presented a paper in the National Conference titled “An Innovative Hardware Architecture For Nanorobot Application In cerebral Aneurgem” held on 29<sup>th</sup> March 2008 at Dhanalakshmi Srinivasan engineering college.
9. Presented a paper in the National Conference titled “An Overview of Low-Power and Power Aware Video Code Design.” held on 20<sup>th</sup> March 2008 at Dhanalakshmi Srinivasan engineering college.

10. Presented a paper in the National Conference titled “A Low Cost Triple Bus DC-DC Converter for Electrical Vehicle Power Management. ” held on 07<sup>th</sup> March 2007 at Dhanalakshmi Srinivasan engineering college.
11. Presented a paper in the National Conference titled “A Novel Control Strategy for Multistage Buck Converter with Fast transient Response” held on 17<sup>th</sup> April 2006 at Mahendra Engg College, Namakkal.
12. Presented a paper in the National Conference titled “A Novel Current Strategy for Multiphase Low Voltage High Current Fast Transient VRMS.” held on 22<sup>nd</sup> March 2006 at GCE, Salem
13. Presented a paper in the National Conference titled “Multiphase Voltage Mode Hysteretic Controlled Buck Converter With Novel Current Sharing.” held on 10<sup>th</sup> Feb 2006 at CIT, Coimbatore

### **International Conference**

1. Presented a paper in the International Conference titled “An IOT Enabling Smart City Services Using PIC 16F877A Microcontroller” held on March 16<sup>th</sup> and 17<sup>th</sup> ,2018 at Dhaanish Ahmed College of Engineering, Chennai
2. Presented a paper in the International Conference titled “Landmine Detection And Discrimination Of Ground Surface Using Multisensor Robot” held on March 16<sup>th</sup> and 17<sup>th</sup> ,2018 at Dhaanish Ahmed College of Engineering, Chennai
3. Presented a paper in the International Conference titled “Smart Mirror Based on IOT platform” held on March 23<sup>rd</sup> - 24<sup>th</sup> , 2018 at, New Prince Shri Bhavani College of Engineering and Technology Chennai
4. Presented a paper in the International Conference titled “Improved Performance of Fuzzy Logic Controller based SEPIC for High Frequency DC Conversion” held on March 22<sup>nd</sup> – 23<sup>rd</sup>, 2017 at Adhi Parasakthi Engineering College,, Chennai
5. Presented a paper in the International Conference titled “A Review Comparative study of P, PD, PI, PID and Fuzzy Logic Controllers used in DC-DC Converter” held on 9 & 10<sup>th</sup> March 2017, at Sai Ram Engineering College, Chennai
6. Presented a paper in the International Conference titled “Comparative Study Of Voltage Mode Control And Current Mode Control ” held on 13 to 14<sup>th</sup> august 2015, at Sri Sai Ram Institute of Technology, Chennai
7. Presented a paper in the International Conference titled “Three Phase Unified Power Quality Conditioner By Artificial Neural Network”, held on 20<sup>th</sup> March 2008 at Sona Colg of Tech, Salem
8. Presented a paper in the International Conference titled “Low Frequency Pulsed Resonant Converter For Energy Harvesting”, held on 27<sup>th</sup> Aug 2007, at CIT ,Coimbatore
9. Presented a paper in the International Conference titled “Real Time Rotor Bar Current Measurement Using Bluetooth Technology For A Brushless Doubly Fed Machine”, held on 10<sup>th</sup> Jan 2007 at ,GCT ,Coimbatore

15. One day workshop on “**How To Write Research Papers For Refereed Journals**” held on 24.01.2015 at Sri Sairam institute of technology.
16. Attended Workshop on “**Recent Trends In Renewable Energy** “ on March-31-2015 at Sri Sairam Institute of technology, Chennai
17. Attended a short term training programme on “**Recent Trends And Research Issues In Wireless Communication**” sponsored and by ISTE during 3<sup>rd</sup> to 8<sup>th</sup> August 2015 at Sri Sairam Engineering College
18. Attended an National Level Workshop on “Glimpses on Effective Research and Proposal Writing” on 20<sup>th</sup> October 2016 at St.Joseph’s Institute of Technology
19. Attended One day FDP on “**Electromagnetic Field theory & transmission lines**” on 25 & 26 June 2016 at Sri SaiRam Institute of Technology, Chennai
20. Attended two days FDP on “**Modern Teaching And Learning Methodologies For Competency Development** ”organized by department of ECE , held on 3<sup>rd</sup> and 4<sup>th</sup> May 2017 at Jeppiar Maamallan Engineering College.
21. Attended 5 days FDP on “**EC6702-Optical Communication And Networks**” from 31<sup>st</sup> May to 7<sup>th</sup> June 2017, Organized by Anna University at Sri Sai Ram Engineering College.

#### **National Conferences:**

1. Presented a paper in the National Conference titled “Multiphase Voltage Mode Hysteretic Controlled Buck Converter With Noval Current Sharing” ,on 10<sup>th</sup> Feb 2006 at CIT,Coimbatore.
2. Presented a paper in the National Conference titled “A Noval Current Strategy for Multiphase Low Voltage High Current Fast Transient VRMS”, on 22<sup>nd</sup> March 2006 at GCE, Salem
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7. Presented a paper in the National Conference titled “Multi- Frequency DC- DC buck converter for voltage regulator model for large loads” on 12<sup>th</sup> to 14<sup>th</sup> October 2011 at Sri Sai Ram Institute of Technology, Chennai, India.

8. Presented a paper in the National Conference titled “Variable number of active base interleaved buck converter with a predictive current sharing system” on 21<sup>st</sup> April 2011, at Sri Sai Ram Institute of Technology, Chennai, India.
9. Presented a paper in the National Conference titled “Various controlled technologies for DC-DC converters” on 27<sup>th</sup> to 29<sup>th</sup> November 2013 at Sri Sai Ram Institute of Technology, Chennai, India.
10. Presented a paper in the National Conference titled “Wireless Crane For Smart Cultivation” on April 21<sup>st</sup> 2017 at Sri Sai Ram Institute of Technology, Chennai, India.

### **International Conferences**

1. Presented a paper in the International Conference titled, “ Real Time Rotor Bar Current Measurement Using Bluetooth Technology For A Brushless Doubly Fed Machine”, on 10<sup>th</sup> Jan 2007 at GCT ,Coimbatore
2. Presented a paper in the International Conference titled, “Low Frequency Pulsed Resonant Converter For Energy Harvesting” on 27<sup>th</sup> Aug 2007 at CIT,Coimbatore.
3. Presented a paper in the International Conference titled, “Three Phase Unified Power Quality Conditioner By Artificial Neural Network” on 20<sup>th</sup> March 2008 at Sona Colg of Tech, Salem.
4. Presented a paper in the International Conference titled, “Comparative Study Of Voltage Mode Control And Current Mode Control ” on 13 to 14<sup>th</sup> august 2015, Sri Sai Ram Institute of Technology, Chennai, India.
5. Presented a paper in the International Conference titled, “A Review Comparative study of P, PD, PI, PID and Fuzzy Logic Controllers used in DC- DC Converter” on 9th and 10th March 2017 at Sri Sai Ram Institute of Technology, Chennai, India.
6. Presented a paper in the International Conference titled, “Improved Performance of Fuzzy Logic Controller based SEPIC for High Frequency DC Conversion” on 22<sup>nd</sup> and 23<sup>rd</sup> March 2017 at Sri Sai Ram Engineering College, Chennai, India.

### **Workshop / Conferences / FDP Organized:-**

1. Organized a Workshop on “**Kaizen Robotics Program**” on 12th Aug 2016