


SriSaiRamEngineeringCollege

DepartmentofElectricalandElectronicsEngineering

Name: Dr. G.Venkatesan venkatesan.eee@sairam.edu.in	
Designation:	AssistantProfessor
Qualification:	Ph.D
AreaofSpecialization:	Power Electronics and Drives
Experience:	Teaching-20 Years Research-10 Years
DateofJoiningtheInstitution	15.07.2022
NumberofWorkshops/ FDPAttended:	5/10
Publication:	Patent: 1 (Filed) Journal: International: 16
	Conference: National: 07
General:	To impart, implement and invest the enriched, experienced knowledge in the areas with latest tools and technologies to the future engineers.
StaffAchievement	1. Doctoral committee member for Anna University Research scholars. 2. Board of Studies member for Autonomous College. 3. Acted as International and National Conference Reviewers
ResearchInterests	Special Electrical Machines, Power Electronics and Drives

ACADEMIC QUALIFICATION:

S. No.	Degree	Year of passing	College	University	Specialization	Class obtained	Full Time/ Part Time
1.	Ph. D	2010	College of Engineering Guindy	Anna University, Chennai	Special Electrical Machines	-	Part time
2.	M.E	2000	P.S.G. College of Technology, Coimbatore	Bharathiyar University	Power Electronics & Drives	First class	Full Time
3.	B. E	1998	National Engineering college, Kovilpatti	Manonmaniam Sundaranar University	Electrical and Electronics Engineering	First class	Full Time

TEACHING EXPERIENCE:

S. No	NAME OF THE POST	EMPLOYER	PERIOD OF EMPLOYMENT
1.	Asst. Professor	Sri Sai Ram Engineering College, Chennai	15.07.2022 to till date
2.	Professor	Christian College of Engineering and Technology, Oddanchatram	25.11.2020 to 13.07.2022
3.	Professor	Karpagam College of Engineering, Coimbatore	03.07.2017 to 30.06.2020
4.	Principal	Narasu's Sarathy Institute of Tech, Salem	27.11.2012 to 25.05.2017
5.	Professor & HoD	Narasu's Sarathy Institute of Tech, Salem	01.06.2012 to 26.11.2012
6.	Asst. Professor	College of Engineering, Guindy, Anna University, Chennai	29.10.2008 to 28.05.2012
7.	Lecturer	College of Engineering, Guindy, Anna University, Chennai	24.02.2005 to 28.10.2008
8.	Teaching Research Associate	College of Engineering, Guindy, Anna University, Chennai	08.08.2001 to 23.02.2005
9.	Lecturer	Sathyabama Engineering college, Chennai	01.06.2000 to 31.07.2001

PATENT:

Sl.No.	Title	Application number	Date
1.	Shrewd Head gear for sensing fermented individual and halting the vehicle	201941047106 A	06/12/2019

PROJECT SUBMITTED / SANCTIONED:

Title of the Project / FDTP	Agency	Role as PI / Co PI	Funding Amount	Date	STATUS
Heuristic Approach for Power Quality optimization in Hybrid Wind and Solar Energy System using Artificial Intelligence	MNRE	Co PI	Rs.34,80,000	Aug 2022	Applied
Online FDTP on Special Electrical Machines	Anna University	Coordinator	Rs.30,000	Dec 2021	Sanctioned
Modernisation& Removal of Obsolescence (MODROBS) in Power Electronics and Drives lab	AICTE	Dept. Co-PI	Rs. 13,44,000	Jan 2020	Sanctioned
Design and Development of Electric Vehicles – A Perspective View	AICTE Training And Learning (ATAL)Academy	Co-ordinator	-	March 2020	Applied
Performance Improvement of Wind Energy Conversion System by using Switched Reluctance Generator Drive	Science and Engineering Research Board	Principal Investigator	Rs. 19,22,000	June 2018	Applied
Behavioral Study of Electromagnetic and Thermal Analysis of Free Energy Generator	Central Power Research Institute	Principal Investigator	Rs.6,00,000	March 2018	Applied
Design, Modelling, Analysis and Implementation of Free Energy Generator	Department of Science and Technology	Co Principal Investigator	Rs. 27,00,000	Dec 2017	Applied

NUMBER OF EVENTS CONDUCTED:

Sl.No.	Title	Duration		Institution
		From	To	
1.	Online FDTP on Special Electrical Machines	13.12.2021	18.12.2021	Christian College of Engineering and Technology

2.	5 days Virtual FDP on Challenges and Innovations in Electrical Engineering system	06.06.2020	13.06.2020	Karpagam College of Engineering, Coimbatore
3.	Recent topics in Electrical and Electronics Engineering – 12 Webinars	25.04.2020	10.06.2020	
4.	Modern Industrial Drives – Advancements and Applications	20.09.2019		
5.	Recent trend in Smart Electrical Drives	20.01.2018		
6.	Electrical Machines I	30.11.2009	6.12.2009	College of Engineering, Guindy.
7.	Solid State Drives	24.11.2008	30.12.2008	
8.	Modelling and Analysis of Electrical Machines	09.08.2007	11.08.2007	

INTERNATIONAL JOURNAL PUBLICATIONS:

Sl. No.	Title	Name of the Journal	Vol.	Year
1.	Novel Control Scheme for Z-Source Inverter based Wind Energy Conversion Systems	WAFFEN-UND KOSTUMKUNDE JOURNAL (WoS)	Volume XI, Issue IV, April/2020, Page No:60 -70	2020
2.	Microcontroller based Speed Control of BLDC Motor	Parishodh Journal	Volume IX, Issue III, March/2020, Page 5605-5612 ISSN NO:2347-6648	2020
3.	On shadow length and area for one MW solar PV system	Caribbean Journal of Science	Vol. 53, Issue 2,	2019
4.	Static and Transient Thermal Analysis of Power Factor Converters in Switched Reluctance Motor Drive	International Journal of Advanced Research in Dynamical and Control systems	Vol.10, Issue 13, pp 1656-1662	2018
5.	DC Motor modeling based on MATLAB SIMSCAPE language.	International Journal of Pure and Applied Mathematics	vol.118, No.20, pp35-41	2018
6.	Smart way to control Home appliances using IOT	International Journal of Pure and Applied Mathematics	Vol.118, pp. 1923-1926	2018
7.	Design and Implementation of Adaptive Jamming Gripper	International Journal of Scientific & Engineering Research	Vol.9, Issue 3, March , pp. 33-36, ISSN:2229 -	2018
8.	RSSI based underground coal mine monitoring and tracing system using LABVIEW technique	International Journal of Scientific & Engineering Research	Vol.9, Issue 3, March, pp. 120-126 ISSN:2229 -5518	2018
9.	Aadhar Based Electronic Voting machine	International Journal of Scientific & Engineering	Vol.9, Issue 3, March, 127-130-	2018

		Research	ISSN:2229 -5518	
10.	Real Time measurements of Transient Thermal Analysis for Power Factor Converters in Switched Reluctance Motor Drive	International Journal of Pure and Applied Mathematics	Vol.117, No.16, pp 27-33	2017
11.	Steady State Thermal Analysis of Power Factor Converters in Switched Reluctance Motor Drive	Fronteiras: Journal of social, technological and environmental science.	Vol. 6, No.2, pp 547 -552.	2017
12.	Power factor correction for Switched reluctance motor drive	International journal of Electrical engineering and Embedded systems,	Vol 2, no.1 pp 79-83.	2010
13.	Power Factor Improvement in Switched Reluctance Motor	Advances in Electrical and computer Engineering Journal	Vol 10, No.1, Pp 59 -63	2010
14.	Occurrence of Harmonics with Inductance machine and Switched reluctance machine – A survey and analysis	Journal of Applied sciences, ANSINET	Vol. 6, No. 9, pp.2123-2127	2006
15.	Modeling and simulation of a Novel Switched reluctance motor drive system with Power factor improvement	American Journal of Applied Sciences	Vol. 3, No. 1, pp. 1649-1654.	2006
16.	High Efficiency sequential switching HPWM inverter	WSEAS Transactions on circuits and systems	Vol. 2, No. 2, pp. 321-326	2003

INTERNATIONAL CONFERENCE PUBLICATIONS:

Sl. No.	Title	Conference	Month& Year
1.	Automatic intelligent model for Lung tumor detection using medical images	IEEE ICPECTS-2022, Sri Sairam Engineering College, Chennai	8 th & 9 th December, 2022
2.	Modified U Net based learning model for semi supervised medical image segmentation	IEEE ICPECTS-2022, Sri Sairam Engineering College, Chennai	8 th & 9 th December, 2022
3.	Implementation of Digital Power Factor Controllers for Switched Reluctance Motor Drives	India Council International conference (INDICON-2022), Kochi.	24 th -26 th November, 2022
4.	Speed control of BLDC motor using microcontroller	ICADEE 2k20, KCE, Coimbatore	6-7, February 2020.
5.	Optimized control scheme for Z-source inverter based wind source power conversion systems	ICADEE 2k20, Karpagam College of Engineering, Coimbatore	6-7, February 2020.
6.	Simulation Analysis of an ON board charger	ICADEE 2k20, Karpagam	6-7, February

	with simultaneous charging of low battery for electric vehicle	College of Engineering, Coimbatore	2020.
7.	Implementation of Microcontroller based maximum power point tracking controller of photovoltaic module arrays using particle swarm optimization	5 th International conference on Electrical, Electronics, Instrumentation and computer communication	24 th and 25 th January 2019

REVIEWERS IN INTERNATIONAL JOURNALS

Sl.No	Journal Name	Year
1.	Hindawi Publications	2022
2.	Mathematical Problems in Engineering- Hindawi Publications	2022
3.	Journal of Critical Reviews	2020
4.	Journal of Engineering Science & Technology	2018

CERTIFICATION COURSES COMPLETED:

S.No	TITLE	CERTIFIED BY	PERIOD
1.	Electrical Machines	NPTEL	April -May 2021
2.	Digital manufacturing & Design	Coursera	May 2020
3.	Introduction to Personal Branding	Coursera	May 2020
4.	Electric Power systems	Coursera	May 2020
5.	Natural Gas	Coursera	May 2020
6.	Safety in the Utility Industry	Coursera	May 2020
7.	Power Electronics	NPTEL- AICTE FDP	Jul- Oct 2019
8.	Design of Photovoltaic Systems	NPTEL- AICTE FDP	Jul -Oct 2018

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

Name of the Society	Details of Membership
IEEE Membership	98792884
Indian Society for Technical Education (ISTE)	LM 92774 (Life Membership)
International Society for Research and Development (ISRDP)	F3140900716 (Lifetime Membership)
Society of Digital Information and Wireless Communications (SDIWC)	25516 (Lifetime Membership)
International Association of Engineers (IAENG)	194633
Institute for Engineering Research and Publication (IFERP)	

NATIONAL&INTERNATIONAL FDTP &WORKSHOPSATTENDED:

Sl. No.	Programme	Duration		Institution
		From	To	
1.	Power electronics applications to renewable energy systems, electric vehicles and intelligent control	10.10.2022	21.10.2022	ATAL FDP at Sri Sairam Institute of Technology, Chennai
2.	Product Design engineering using Fusion 360	01.08.2022	05.08.2022	Sri Sairam Engineering college, Chennai
3.	Application of Artificial Intelligence and machine learning in Electrical engineering	27.07.2022	28.07.2022	Sri Sairam Engineering college, Chennai
4.	Multi technology	28.06.2021	03.07.2021	Dr.N.G.P. Institute of Technology, Coimbatore
5.	FDP on Renewable energy systems	01-06-2020	5-06-2020	RVS College of Engineering and Technology
6.	Intelligent controllers for Renewable energy systems	02-06-2020	03-6-2020	P.S.R. Engineering college
7.	Renewable energy technologies, integration to the power grid & e-vehicle	28-05-2020	01-6-2020	Sri Sairam institute of technology
8.	Virtual Training for Renewable energy systems	28-05-2020	30-5-2020	S.A Engineering College
9.	Faculty Development Programme on “Research challenges and innovations in renewable energy systems”	11-05-2020	16-5-2020	Aarupadaiveedu institute of technology
10.	FDP on Electric Vehicle Technology	06-05-2020	09-5-2020	IEEE - Madras Section
11.	FDP on Technological Advancement in Power System Control, Power Controllers, Drives & E-Vehicles	27-04-2020	01-5-2020	N.G.P. Institute of Technology, Coimbatore
12.	FDP on Teaching and Learning for Accreditation in Technical Education	27-04-2020	01-5-2020	NITTTR Chandigarh
13.	FDP on Neural Network and Convolutional Neural Network	20-4-2020	24-4-2020	NITTTR Chandigarh
14.	Soft computing techniques using MATLAB	23.01.2020		Karpagam College of Engineering, Coimbatore
15.	Industrial Automation using PLC & SCADA	01.02.2020		Karpagam College of Engineering, Coimbatore
16.	Journal writing, IPR and patent drafting	13.12.2019		Karpagam College of Engineering, Coimbatore
17.	Bloom box- The future Energy in India	27.09.2018	28.09.2018	Karpagam College of Engineering
18.	Modern trends in Industrial	16.03.2018		Karpagam College of

	Energy Auditing and Management.			Engineering
19.	Development of Renewable Energy sources for Rural Electrification	09.03.2018	10.03.2018	Karpagam college of engineering
20.	MATLAB/Simulink Based Hands on Training on Power Engineering and Control Topologies	03.01. 2018	05.01.2018	Karpagam college of engineering
21.	Electric Drives and Challenges of Electric Transportation	12.12. 2017		K.C.G college of technology
22.	Application of MATLAB/Simulink to Electrical Systems	07.12. 2017	09.12.2017	Bapatla Engineering, Guntur
23.	Digital Power and Motor Control Using C2000	21.12. 2017	22.12. 017	KCG College of Technology
24.	Design and Development of feedback controllers for Power Electronics Converters based system	23.11. 2017	25.11.2017	Karpagam College of Engineering
25.	Fundamentals of Nano Science and Technology	7.12.2011	21.12.2011	College of Engineering, Guindy
26.	Applied Soft computing	24.11.2010	30.11.2010	
27.	Power Quality	1.12.2010	7.12.2010	
28.	Real Time Engineering Simulators	27.09.2008		IIT Chennai
29.	Design of Electrical Apparatus	19.05.2008	25.05.2008	College of Engineering, Guindy.
30.	RTOS for Real Time Embedded Applications	01.02.2007	02.02.2007	
31.	Virtual Instrumentation	24.01.2007	25.01.2007	
32.	Non-Linear Control system	04.12.2006	16.12.2006	

PROGRAMMES ACTED AS RESOURCE PERSON:

Sl. No.	Date	Topic	College	Acted as
1.	29.12.2021 and 30.12.2021	International Conference on Advances in Science, Engineering & Technology (ICASET -2021)	IFERP and Karpagam Institute of Technology, Coimbatore	National Advisory committee
2.	8.10.2021 and 09.10.2021	International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA-2021)	Kumaraguru College of Technology, Coimbatore	Technical Reviewer
3.	06.05.2021 and	International Conference on Emerging Electrical Systems	Sethu Institute of Technology -Virudhunagar	National Advisory committee

	07.05.2021	and Control (ICEESC-21)		
4.	25.02.2020	Project Review	Dr. N.G.P Institute of Technology	Academic Expert
5.	29.07.2019	Recent trends in power electronics and its applications	Dr. N.G.P Institute of Technology	Guest lecture
6.	09.03.2018 & 10.03.2018	Development of Renewable energy sources for rural electrification	Karpagam college of Engineering, Coimbatore	Resource person
7.	27.02.2018& 28.02.2018	International Conference on Contemporary topics in Electrical and Electronics Engineering	Karpagam college of Engineering, Coimbatore	Chair Person
8.	02.01.2018	Electromechanical Energy conversion and concepts in rotating machines	Narasu's Sarathy institute of technology, Salem	Guest lecture
9.	25.11.2017	Design and Development of feedback controllers for Power Electronics Converters based system	Karpagam College of Engineering	Resource person
10.	17.11.2017	BoS Meeting	National Engineering College, Kovilpatti	Alumni member
11.	27.01.2014	BoS Meeting	National Engineering College, Kovilpatti	Alumni member
12.	07.03.2013	2013 – International conference on computer communications and informatics	Sri Shakthi institute of engineering and technology, Coimbatore	Reviewer for conference paper
13.	11.05.2012	BoS Meeting	National Engineering College, Kovilpatti	Alumni member
14.	13.01.2012	Electrical Machines -I	Vel tech High tech Dr. Rangarajan Dr. Sakunthala Engg., college, Chennai	Guest lecture
15.	02.01.2012	Modern Trends in Electrical Motor Drives	Selvam College of Technology, Namakkal	Chief guest and Resource person
16.	05.08.2011	Comparison of special machine performances	Vel tech multi tech Dr. Rangarajan Dr. Sakunthala Engg college, Chennai	Key note address and Paper presentation