

Bio-data

Name **Dr. S. Senthil Kumar**

Designation Professor (CAS)
in Electrical and Electronics
Engineering

Address for communication Department of Electrical and
Electronics Engg.
Govt. College of Engineering,
Dharmapuri - 636 704

Age and date of Birth 49 years, 05.02.1974

Contact number 94430 71 585

Email sengce2009@gmail.com



Qualification

Degree	Branch/ Specialisation	Institution/University	Year of Passing	Class
Ph.D.	Power System	Anna University, Chennai	Dec 2007	--
M.E.	Power System	College of Engg. Guindy, Anna University, Chennai	Feb 1998	I -class
B.E	Electrical and Electronics	Govt. College of Tech. Bharathiar University	May 1995	I-class

Experience in CAS

:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Year s	Month s	Day s
Government College of Engineering, Salem	Assistant Professor	9.8.2001	5.7.2011	9	10	26
Government College of	Assistant Professor	6.7.2011	5.7.2012	1	0	0

Engineering, Bargur						
Government College of Engineering, Salem	Assistant Professor	6.7.2012	8.8.2012	0	1	3
Government College of Engineering, Salem	Associate Professor (CAS)	09.08.2012	8.8.2016	4	0	0
Government College of Engineering, Salem	Professor (CAS)	9.8.2016	Till date	6	5	23
Total				21	6	49

Experience :

Name of the College	Designatio n	Joining Date	Relieving Date	Experience		
				Year s	Month s	Day s
Government College of Engineering, Salem	Assistant Professor	9.8.2001	5.7.2011	9	10	26
Government College of Engineering, Bargur	Assistant Professor	6.7.2011	5.7.2012	1	0	0
Government College of Engineering, Salem	Assistant Professor	6.7.2012	25.04.2023	10	9	19
Government College of Engineering, Dharmapuri	Associate Professor	26.04.2023	Till date	0	1	10
Total				22	10	4

No. of PhDs Produced : 20 (In Anna University, Chennai)

No. of Master of Engineering Dissertation : 39

Research Papers presented:

S.No.	Journal/Conference	Total papers
1	International journal	60
2	National Journal	6
3	International Conference	10
4	National Conference	12
Total number of Publications		88

Coordinator in Staff Development Programme:

S.No.	Name of the Staff Development programme	Period
1.	Solar Photovoltaic: Fundamental Technologies and Applications (ISTE Sponsored)	12.12.2011 to 22.12.2011
2.	Power Electronic application of Renewable Energy Generation (AICTE Sponsored)	29.05.2013 to 12.05.2013
3.	Modern Programmable Logic Controller Techniques and Embedded systems	19.01.2016 to 20.01.2016
4.	Modern special Electrical Drives Techniques and its Applications	21.01.2016 to 25.01.2016
5.	89C51 Based embedded System applications: Industrial perspective	26.7.2016 to 1.8.2016
6	Integration of Renewable Energy, Energy Storage and System Operation	14.12.2016 to 20.12.2016
7	Applications of Embedded System	21.2.2018 to 22.2.2018
8	Embedded architecture, C programming with applications (3 rd and 4 th year GEC Raipur students)	10.10.2019 to 16.10.2019
9	Electric Vehicles	20.04.2023 to 24.02.2023

List of short-term courses / FDP attended

S.No	Name of Training programme	AICTE/ TEQIP/ISTE	Dates		No. of days	Venue
			From	To		
1.	Renaissance in Business through E-Commerce	AICTE	09.11.2000	22.11.2000	14	Kongu Engineering, Perundurai

2.	Emerging Technology Programme on Orientation Programme for Newly Recruited Engineering College Lecturers	DTE	01.08.2001	08.08.2001	8	Technical Teacher Training Institute, Chennai
3.	Real Time Energy Management Systems	AICTE-ISTE	15.12.2003	27.12.2003	13	National Institute Of Technology, Warangal
4.	Simulation, Analysis And Design Of Power Electronic Systems	AICTE-ISTE	19.05.2004	25.05.2004	7	Amrita Institute Of Technology, Coimbatore
5.	Soft Computing Techniques For Power Systems	UGC	28.11.2005	17.12.2005	20	SRM Institute Of Science And Technology, Kattankulathur
6.	Virtual Instrumentation Based on LABVIEW	TEQIP	20.11.2006	21.11.2006	2	Government College Of Engineering, Salem
7.	Communication And Pedagogical Skills For Effective Teaching	TEQIP	12.12.2006	12.12.2006	1	Government College Of Engineering, Salem
8.	Intensive Training On Advanced Laboratory Equipments	TEQIP	08.01.07	12.01.07	5	Government College Of Engineering, Salem
9.	Campus Wide Networking	TEQIP	25.06.07	25.06.07	1	Government College Of Engineering, Salem
10.	Intensive Training On Programmable Logic Controller	TEQIP	22.09.08	23.09.08	2	Government College Of Engineering, Salem
11.	Faculty Development Programme On VLSI Laboratory Equipments	TEQIP	12.07.07	13.07.07	2	Government College Of Engineering, Salem
12.	Electronic Circuit Design Techniques	TEQIP	28.09.07	29.09.07	2	National Institute Of Technology, Tiruchirappalli
13.	Intensive Training On Programmable Logic Controller	TEQIP	22.09.08	23.09.08	2	Government College Of Engineering, Salem
14.	Recent Trends In Renewable Energy Sources	TEQIP	27.01.09	29.01.09	3	Government College Of Engineering, Salem
15.	Advanced Programmable Logic Controller Programming And Its Applications	TEQIP	11.02.09	12.02.09	2	Government College Of Engineering, Salem
16.	Software Engineering And Quality Assurance	TEQIP	04.03.09	06.03.09	3	Government College Of Engineering, Salem
17.	Electric Field Modelling	TEQIP	11.03.09	12.03.09	2	Government College Of Engineering, Salem
18.	Enhancing Professional And Personal Efficiency As Facilitators In Engineering Education	TEQIP	16.03.09	18.03.09	3	Government College Of Engineering, Salem
19.	Advanced Virtual Instrumentation Based On LABVIEW	TEQIP	23.03.09	24.03.09	2	Government College Of Engineering, Salem
20.	Intelligent Digital Controller For Special Electrical Machines	DST	30.07.09	31.07.09	2	Institute Of Road And Transport Technology, Erode

	Future Electrical Energy requirement and Energy Management	AICTE	31.05.10	13.06.10	14	Kalaignar Karunanithi Institute of Technology, Coimbatore
22.	Recent Advancements in Virtual Instrumentation and Embedded system Design	TEQIP	16.06.10	22.06.10	7	Government College of Technology, Coimbatore
23.	Advanced Programmable Logic Controller (Plc) Programming And Its Applications		08.03.11	09.03.11	2	Government College Of Engineering, Salem
24.	Solar Photovoltaics: Fundamentals, Technologies and Applications	ISTE	11.04.11	15.04.11	5	IIT Bombay
25.	Enterprise Computing	AICTE	18.04.11	30.04.11	13	Sona College of Technology, Salem
26.	Sponsored Computational intelligence techniques in green energy	AICTE	03.06.11	04.06.11	2	Muthayammal Engg College, Rasipuram
27.	VLSI,PLC – Applications and Renewable Sources of Energy	TEQIP	13.06.11	19.06.11	7	Government College Of Engineering, Salem
28.	Research Issues in Power Converters and Power Systems	TEQIP	16.08.11	17.08.11	2	Government College Of Engineering, Salem
29.	Permanent Magnet Synchronous Motor and Its Applications	TEQIP	02.02.13	02.02.13	1	Government College Of Engineering, Salem
30.	Recent trends and Development in Digital Communication Techniques	TEQIP	01.04.2013	7.4.2013	7	Government College Of Engineering, Salem
31.	Power Electronic application to Renewable Energy Generation	AICTE	29.04.2013	12.05.2013	14	Government College Of Engineering, Salem
32.	SoC and advanced digital design using VHDL	AICTE	13.05.2013	26.05.2013	14	Government College Of Engineering, Salem
33.	Modern simulation techniques for research in Engineering and Sciences	TEQIP	22.07.2013	28.07.2013	7	Government College Of Engineering, Salem
34.	Advanced digital controller for modern special machine drive: Industrial perspective	TEQIP	23.10.2013	29.10.2013	7	Government College Of Engineering, Salem
35.	Power Electronics Application to Distributed Generation	TEQIP	30.10.2013	06.11.2013	7	Government College Of Engineering, Salem
36.	Team building and conflict management	TEQIP	29.07.2013	31.07.2013	3	Government College Of Engineering, Salem
37.	Institutional Development and Quality management	TEQIP	11.12.13	13.12.13	3	ISTE Chennai
38.	Essentials of embedded systems and their applications	TEQIP	5.3.2014	7.3.2014	3	Hotel Gem park, Udhagamandalam
39.	Training in Fire Prevention and Fire Fighting	SSICSL	4.4.2014	---	1	Government College Of Engineering, Salem
40.	Capacity Building	TEQIP	22.4.2014	---	1	Government College Of Engineering, Salem
41.	Teaching Learning in Higher Education	TEQIP	28.5.2014	29.5.2014	2	Indian Institute of Technology Madras
42.	Introduction to Robotics	IIT Bombay	23.6.2014	24.6.2014	2	Sona College of Tech., Salem
43.	Computer Programming	IIT Bombay	16.6.2014	21.6.2014	6	Government College Of

						Engineering, Salem
44.	Computer Networking	IIT Bombay	30.6.2014	05.7.2014	6	Government College Of Engineering, Salem
45.	Introduction to Design of algorithms	IIT, Kharagpur	27.4.2015	30.5.2015	14	Government College Of Engineering, Salem
46.	Advanced Technology in Solar PV system – Industrial Perspective	TEQIP	27.10.2015	02.11.2015	7	Government College Of Engineering, Salem
47.	Hands on training on advanced measuring equipment	TEQIP	3.11.2015	9.11.2015	7	Government College Of Engineering, Salem
48.	Management Capacity Enhancement Programme	TEQIP	16.11.2015	20.11.2015	5	IIM Lucknow (Noida Campus)
49.	Hands on training on Big Data Analytics	TEQIP	10.12.2015	16.12.2015	7	Government College Of Engineering, Salem
50.	System Design Using SOC FPGA	TEQIP-II	05.01.2016	11.01.2016	7	Government College Of Engineering, Salem
51.	Modern Programmable Logic Controller Techniques and Embedded System	TEQIP – II	19.1.2016	20.1.2016	2	Government College Of Engineering, Salem
52.	Outcome based Education and Accreditation	---	8.2.2016	9.2.2016	2	Government College Of Engineering, Salem
53.	Hi impact Leadership (Blue Print for success)	TEQIP – II	10.3.2016	12.3.2016	3	Government Engineering College, Thiruvananthapuram
54.	Advanced Techniques in Digital Signal and Image Processing using MATLAB	TEQIP – II	7.6.2016	20.6.2016	14	Government College Of Engineering, Salem
55.	89C51 Based Embedded System Applications: Industrial perspective	TEQIP – II	26.7.2016	1.8.2016	7	Government College Of Engineering, Salem
56.	Outcome based Education	TEQIP-II	14.10.2016	15.10.2016	2	Government College Of Engineering, Salem
57.	DC Smart Grid: Renewable integration, Energy storage & System operation	TEQIP – II	10.11.2016	14.11.2016	5	Malavia National Institute of Technology
58.	Advances in Measurement Techniques	TEQIP-II	30.11.2016	9.12.2016	7	Government College Of Engineering, Salem
59.	Integration Of renewable Energy, Energy Storage and system operation	TEQIP-II	14.12.2016	20.12.2016	7	Government College Of Engineering, Salem
60.	Quality management in technical education	TEQIP-II	16.3.17	18.3.17	3	ISTE, Andaman
61.	Industrial Drives Automation and Intelligent Control	TEQIP – II	01.03.2017	07.03.2017	7	Government College Of Engineering, Salem
62.	Pedagogy and Management capacity enhancement programme for teaching staff	TEQIP – III	25.2.2018	1.3.2018	5	Engineering staff College of India At Goa
63.	Embedded systems and VLSI design	TEQIP-III	9.5.2018	15.5.2018	7	Government College Of Engineering, Salem
64.	Training on E-Procurement	TEQIP-III	25.4.2018	26.4.2018	2	Government College Of Engineering, Salem
65.	Advanced RF circuit design and software defined radio	AICTE	12.6.2019	25.6.2019	14	Government College Of Engineering, Salem

	Electrical Energy Audit	TEQIP-III	24.9.2019	25.9.2019	2	Government College Of Engineering, Salem
67.	Productivity Enhancement Programme	TEQIP- III	18.11.2019	23.11.2019	6	Government College Of Engineering, Salem
68.	Design, Develop and Deliver online courses through MOODLE platform	TEQIP-III	23.4.2020	24.4.2020	2	Coimbatore Institute of Technology, Coimbatore
69.	Holistic lifestyle management	TEQIP-III	15.6.2020	19.6.2020	5	Government College of Technology, Coimbatore
70.	Real-Time Protection of Modern Power Systems (RPMPs-2020)		23.6.2020	27.6.2020	5	Kakatiya Institute of Technology & Science Warangal
71.	Launch vehicles and space applications	Webinar	11.7.2020	12.7.2020	2	Sona College of Technology, Salem
72.	21 Century opportunities challenges and pathways to industry 4.0	Webinar	16.7.2020	---	1	Indian Welding society and Anna University
73.	Electric Drive Systems And Electrical Maintenance In Coal Mining Machinery	Webinar	22.7.2020	---	1	Government College Of Engineering, Tirunelveli
74.	Strengthen Skill Set and Align To Industry Expectations During Academics	Webinar	24.7.2020	---	1	Government College Of Engineering, Tirunelveli
75.	Advanced Electrical Drives	TEQIP-III	8.3.21	13.3.21	6	Government College Of Engineering, Salem
76.	Sustainable Power Systems	Online short term course	7.6.21	11.6.21	5	National Institute of Technology, Trichy

Number of Training Program attended : 76

Total Number of days Training program attended : 368 Days

Field of Interest : Power System, Power Electronics
Neural Network, Fuzzy Logic,
Genetic Algorithm, Optimization, Power
Electronics and Embedded Systems,
Microprocessor and Microcontrollers.

Member in : 1. Indian Society for Technical Education
2. Institution of Engineers India

Guest lectures presented :

1. Application of Embedded System
2. Neuro Fuzzy Controller For Power Converters
3. Embedded Controller for Power Converter
4. Intelligent Controller for Power Converters
5. Power Electronics Converters in Renewable Energy systems

6. Challenges For Teachers in Present Condition
7. How to face Interview
8. Power Plant Engineering
9. Energy Auditing
10. Power system reliability and security
11. Power system operation and control
12. Application of Fuzzy and Genetic algorithm to power system
13. Application of MATLAB to Power Electronics Circuits
14. Maximum power point tracking for Wind Energy conversion system
15. Optimization of Distributed generation

Award : Award of Excellence by Recruitment Analysis Council



Signature of the Faculty

Publication details

Dr. S. Senthil Kumar Professor (CAS) Department of Electrical Engineering Government College of Engineering	
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Field of Interest:

Power System, Power Electronics, Intelligent Techniques, Neural Network, Fuzzy Logic, Economic dispatch and Unit Commitment

No. of Publications : 88



International Journals

1. Senthil Kumar, S & Palanisamy, V 2007, 'A Dynamic Programming based Fast Computation Hopfield Neural Network for Unit Commitment and Economic Dispatch', International Journal of Electric Power System Research, vol. 77, pp. 917-925.
2. Latha, R & Senthil Kumar, S 2010, 'Segmentation of Linear Structures from Medical Images', Procedia Computer Science 2, pp. 303-306.
3. Ponnuyinselvan, V & Senthil Kumar, S 2011, 'Throughput Analysis of Many to One Multihop Wireless Mesh Ad hoc Network', IJCSE, vol. 3, no. 9, pp. 3298-3303.
4. Rosy Salomi Victoria, D & Senthil Kumar, S 2012, 'Hybrid Trust Management', European Journal of Scientific Research, vol. 1, pp. 5-22.
5. Latha, R & Senthil Kumar, S 2012, 'Feature Extraction Using Watershed Transformation' Frontiers in Computer Education, pp. 899-906.
6. Latha, R & Senthil Kumar, S 2012, 'Linear Feature Extraction using Fuzzy Watershed Algorithm', European Journal of Scientific Research, vol. 72, no. 1, pp. 58-63.
7. Ponnuyinselvan, V & Senthil Kumar, S 2012, 'An Optimized Ad Hoc on Demand Distance Vector Routing Protocol for Wireless Network', Journal of Computer Science 8(7), vol. 8(7), pp. 1177-1183.

8. Ponniyinselvan, V & Senthil Kumar, S 2013, 'A Hybrid optimization algorithm for Routing in Wireless Multihop Network', Life Science Journal, vol. 10(4s), pp. 499-504.
9. Rosy Salomi Victoria, D & Senthil Kumar, S 2013, 'Wireless network using optimized cooperative scheduling', Journal of Theoretical and applied information technology, vol. 57, no. 3, pp. 607-616.
10. Rajendran, S & Senthil Kumar, S 2013, 'A solar Power Generation for single phase AC residential load using Boost DC-AC inverter with variable structure Voltage Control', European Journal of Scientific Research, vol. 101, no. 2, pp. 232-245.
11. Rajendran, S & Senthil Kumar, S 2013, 'A single phase ac grid Tied Solar Power Generation using DC-AC inverter with Non linear state variable structure control', Australian journal of Basic and applied sciences, vol. 7, pp. 140-148.
12. Vivekananda Sibal, T & Senthil Kumar, S 2013, 'Three phase Multi pulse rectifier with controlled current injection and Line side transformer', Australian journal of Basic and applied sciences, vol. 7, issue. 12, pp. 9-17.
13. Rajendran, S & Senthil Kumar, S 2013, 'A solar power generation for single phase AC grid using boost DC-AC Inverter with nonlinear variable structure control', UPB Scientific Bulletin Series C: Electrical Engineering.
14. Sudhagar, G & Senthil Kumar, S 2013, 'VLSI design of efficient architecture in recursive pseudo-exhaustive two pattern generation', Journal of Theoretical and applied information technology, vol. 55, no. 2, pp. 232-239.
15. Latha, R & Senthil Kumar, S 2013, 'Extraction of Cardiovascular structures using artificial neural network and mathematical morphology', International review on computers and software (Praise worthy prize), vol. 8, no. 9, pp. 2075-2079.
16. Umasankar, P & Senthil Kumar, S 2013, 'A Novel approach for an enhanced high frequency matrix converter for induction heating application', International review on modelling and simulation, vol. 6, no. 6, pp. 1914-1921.
17. Senthilkumar, S, Rosy Salomi Victoria, 2013, 'Random Scheduling for exploiting throughput and TSMA scheduling for alleviating interference in wireless systems', International review on Computers and software, Vol. 8, No12.
18. Vivekananda Sibal, T & Senthil Kumar, S, 2014 'Three phase two 6 pulse AC-DC converter with current injection and line side transformer', Scientific bulletin. Series C, Vol. 76, Iss. 2.
19. Senthil Kumar, S & Ruby Meena, A 2014, 'Load frequency stabilization of four area hydro thermal system using superconducting magnetic energy storage system', International journal of Engg and Tech, Vol.6 No.3, pp. 1564-1572.

20. Senthil Kumar, S & Ruby Meena, A 2014, 'Modelling and analysis of three area thermal power system using conventional control system', Indian Journal of Electronics and Electrical Engg, Vo. 2. No.2, pp. 89-93.
21. Senthilkumar, S, & Ruby Meena, A 2014, 'Design and Analysis of Fuzzy Pid Controller for Multi Area Reheat Thermal Power System', Middle-East Journal of Scientific Research, Vol. 22, No.1, pp.51-56.
22. Senthilkumar, S & Senguttuvan, S 2014, 'Design and Implementation of a simple and efficient soft switched PWM Inverter for Induction motor drive', Research journal of applied science Engineering and Technology, Vol. 8, No.2, pp. 668-678.
23. Senthilkumar, S & Kalaiselvan, K 2014, 'Performance of Direct Torque Control of Cascaded H bridge Multilevel Inverter Fed Induction Motor Using SVM', International Journal of Applied Engineering Research, Vol.9, No.22, pp. 13409-14324.
24. Senthilkumar, S & Balaji, N 2014, 'Fuzzy logic Control Based DC-DC Converter for Fuel Cell Application', Advancements in Electrical and Electronics Engineering, Vol. 6, No. 2, pp. 122-124.
25. Senthilkumar, S, Anguraj, SKS 2014, 'Design and control methodology of shunt active power filter for harmonic reduction', Advancements in Electrical and Electronics Engineering, Vol. 6, No.2, pp. 125-127.
26. Senthilkumar, S, Logavani, K 2014, 'Intelligent Techniques for Solving Unit Commitment Problem – A Review', Advancements in Electrical and Electronics Engineering, Vol. 6, No.2, pp.69-71.
27. S. Senthilkumar, S, Vivekananda Sibal, 2014, 'A Passive 36-Pulse AC-DC Converter with Inherent load Balancing using Combined Harmonic voltage and Current Injection', Indian journal of Electrical and Electronics Engg, Vol.2. No. 2. Pp. 72-78.
28. Senthilkumar, S, & Venkatesan, P 2014 'Wind and Solar Energy Conversion System Using MPPT Based Power Electronics', Singaporean Journal of Scientific Research, Vol. 6. No.5, pp. 235-240.

29. Senthilkumar, S &Subramani, A 2014, 'Solar Energy Conversion System using Simplified Multilevel Inverter', Singaporean Journal of Scientific Research, Vol. 6, No.5, pp. 229-234.
30. Senthilkumar, S &Logavani, K 2014, 'Solving short term unit commitment problem using lambda optimization and modified dynamic programming', International journal of Applied Engineering Research, Vol. 9, No. 24 pp. 2756 - 27579.
31. Senthilkumar, S, &Senguttuvan, S 2014, 'Efficient three phase minimum component soft switched delta modulated PWM inverter for induction motor drives', International journal of Applied Engineering Research, Vol.9, No. 24, pp.27779-27796.
32. S. Rajendran and S. Senthil Kumar, 2014, 'A Modified Sinusoidal Pulse Width Modulation Control Technique Based Single Phase Grid Connected Single Stage Boost Inverter' Research Journal of Applied Sciences, Engineering and Technology
33. Umasankar P, Dr.S.Senthilkumar, 2014 'Fuzzy Logic Control of Single Phase Matrix Converter Fed Induction Heating System', International Journal of Engineering and Technology (IJET) Vol 6 No 3.
34. Senthilkumar, S & Logavani, K 2015, 'A New Hybrid Approach For Profit-Based Unit Commitment Using Particle Swarm Optimization With Lagrangian Relaxati', International Journal of Applied Engineering Research, Vol.10, No. 8, pp. 21045-21058.
35. Senthilkumar, S & Logavani, K 2015, 'A Hybrid genetic algorithm based Lagrangian relaxation approach for profit based unit commitment problem', ARPN Journal of Engineering and Applied Sciences, Vol. 10, No.14.
36. Senthilkumar, S & Kalaiselvan, K 2015, 'DTC Scheme of Cascaded H bridge Nine-Level Inverter Fed Induction Motor', Global Journal of Pure and Applied Mathematics, Vol. 11, No. 2, pp. 201-216.
37. Senthilkumar, S & Kalaiselvan, K 2015, 'Harmonic analysis on asymmetrical hybrid multilevel inverter based induction motor drive', Scientific bulletin series C, Vol. 77, No.2, pp. 235-244.

38. R. Devarajan, S. Senthilkumar, 2015, 'Performance Analysis of Three Port Bidirectional DC to DC Converter' International Journal of Applied Engineering Research ISSN 0973-4562 Vol. 10, No 10.
39. Senthilkumar, S, Karthikeyan, B & Senthilkumar, S 2015, 'Automatic positioning and optimal inclination angles of photovoltaic panels for maximum power output', International journal of applied engineering research, Vol. 10, No. 14, pp. 34779-34784.
40. Senthilkumar, S, Rajkumar, K, B. Karthikeyan, 2015, "Analysis of Conducted EMI in Photovoltaic Boost Converter with Different MPPT Techniques", International Journal of Applied Engineering Research ISSN 0973-4562, Vol. 10, No. 9, pp.7469-7476.
41. Senthilkumar, S, Rajkumar, K, B. Karthikeyan, 2015, "An Overview of Conducted EMI and its Mitigation in Photovoltaic Systems", International Journal of Applied Engineering Research ISSN 0973-4562 Vol. 10, No 9, pp. 23523-23534
42. Senthilkumar, S & Kaviya, R 2016, 'A New High efficiency DC-AC half-bridge Grid tied inverter', International Journal of selected areas in Microelectronics, Vol. 8, No.2, pp.43-50.
43. Senthilkumar,S & Sunitha, S 2016, 'A Load Adaptive ZVS Auxiliary circuit for PWM DC-DC Buck converter', International Journal of selected areas in Microelectronics, Vol. 18, No.2, pp. 108-114.
44. Senthilkumar, S, Subramani, A 2016, 'Fuzzy Control based pulse width modulation for asymmetric multilevel inverter', Asian Journal of Research in Social Sciences and Humanities, Vol.6, pp.69-79.
45. Senthilkumar, N, Balaji, N 2016, 'Fuel cell application in vehicle by novel fuzzy logic based dc-dc converter', Asian journal of Research in Social Sciences and Humanities, Vol.6, No. 10, pp.846-856.
46. Senthilkumar, S, Umasankar, P 2016, 'Dual Stage Indirect Matrix Converter (DSIMC) using Sophisticated Controller for Induction Machine Applications', Asian Journal of Research in Social Sciences and Humanities, Vol.6, no. cs1, pp.206-7222.

47. Senthilkumar, S, Venkatesh, R, 2016, 'Fuzzy Logic Controller Based Multilevel Inverter Toplogy With Reduced Switches Asian Journal of Research in Social Sciences and Humanities, Vol.16, no. 7, pp.53-64.
48. Senthilkumar, S, Selvam, P, 2016, 'Interlligent Maximum Power Point Tracking Using Fuzzy Logic For Solar Photovoltaic System Under Non-Uniform Irradiations Conditions', Internatinal Jouranal of Electrical, Computer, Energetic, Electronic and Communication Engineering, Vol:10, no:2 pp.321-327.
49. Senthilkumar, S, Rajkumar, K, B. Karthikeyan, 2016, "Mitigation and Analysis of Electro Magnet Interference in a Photovoltaic Single Phase Buck-Boost Inverter", International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 4, pp. 2340-2348.
50. Senthilkumar, S, Logavani, K, 2017, 'LamdaOptimisation of constraint violating units in short-term thermal unit commitment using modified dynamic programming', Turkish Journal of Electrical Engineering and Computer Sciences, Vol. 25, pp. 1311-1327.
51. Senthilkumar, S, Anguraj, SKS, 2017, 'An Intelligent Control of Three Phase Shunt Active Power Filter for Power Quality Improvement', Journal of Computational and Theoretical Nanoscience, vol. 14, pp. 2567-2573.
52. Senthilkumar, S, Karthiga Jaya, B, 2018, "Image Registration based Cervical Cancer Detection and Segmentation Using ANFIS Classifier", Asian Pacific Journal of Cancer prevention, Vol. 19, pp. 3203-3209. DOI:10.31557/APJCP.2018.19.11.3203.
53. Senthilkumar, S, Abarna, C, 2020, "Design of modified Z-source DC-DC converter", International Journal for Modern Trends in Science and Technology, Vol. 06, No.2, pp. 94-98.
54. Senthilkumar, S, Sangeetha, K, 2020, "A high voltage gain modified SEPIC converter", International Journal for Modern Trends in Science and Technology, Vol. 06, No.2, pp. 84-89.
55. Senthilkumar, S, Suresh, V, 2020, "Optimal reactive power dispatch for minimization of real power loss using SBDE and DE-strategy algorithm", Journal of Ambient Intelligence and Humanized Computing, DOI 10.1007/s12652-020-02673-w.
56. Senthilkumar, S, Priyadharshini, D, 2021, "Three Phase Buck-Boost Converter with Fuzzy Logic Controller for Aircraft Applications", International Journal of Creative Research Thoughts, ISSN: 2320-2882, Vol. 9, issue 3, pp. 5894-5909.

57. Senthilkumar, S, Sakthivel, L, 2021, "PID- Fuzzy Logic Control of Forward Buck Converter for Modern Aircraft Application", International Journal of Creative Research Thoughts, ISSN: 2320-2882, Vol. 9, issue 3, pp. 5615-5626.
58. Senthilkumar, S, Suresh, V, 2021, "Research on hybrid modified path finder algorithm for optimal reactive power dispatch", International journal of bulletin of the polish academy of sciences, Vol. 69, issue. 4, pp. 1-8.
59. Senthilkumar, S, Umamaheswari, S, 2022, "Dual input/output dc-dc converter for solar PV applications", International journal of creative research thoughts, Vol.9, issue. 6, pp. 549-560.
60. Senthilkumar, S, Anu Priya, A, 2023, "Review on converters used in Electric Vehicle drive system", International journal for modern trends in science and technology, ISSN:24553778, Vol. 9, issue 1, pp.1-9.

National Journals

1. Senthil Kumar, S &Palanisamy, V 2006, 'A Hybrid of Fast Computation Hopfield Neural Network and Dynamic Programming Approach to Unit Commitment', Journal of Computer Science, vol. 2, no. 3, pp. 209-220.
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He presented guest lectures on the following topics in several Engineering Colleges.

1. Application of Embedded System
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3. Embedded Controller for Power Converter
4. Intelligent Controller for Power Converters
5. Power Electronics Converters in Renewable Energy systems
6. Challenges For Teachers in Present Condition
7. How to face Interview
8. Power Plant Engineering
9. Energy Auditing
10. Power system reliability and stability
11. Power system operation and control
12. Application of Fuzzy and Genetic algorithm to power system
13. Application of MATLAB to Power Electronics Circuits
14. Maximum power point tracking for Wind Energy conversion system

He acted as Jury in various conferences. His field of interest includes Power System, Neural Network, Fuzzy Logic, Genetic Algorithm and Optimization techniques, Power Electronics and Embedded Systems.

He organized Staff Development Programme on

- (i) ISTE work shop on Solar Photovoltaic: Fundamental Technologies and Applications

- (ii) AICTE staff development Programme on Power Electronics application to Renewable Energy Resources

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