

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Curriculum Vitae



S. Senthilkumar , received the B.E. degree in electrical and electronics engineering from Madurai Kamaraj University, Madurai, India, in 1999, the M.Tech. degree in electrical drives and control from Pondicherry University, Puducherry, India, in 2005, and the Ph.D. degree in electrical engineering from the National Institute of Technology, Tiruchirappalli, India, in 2013. He has 17 years of teaching experience at various engineering institutions. Since April 2006, he has been an Assistant Professor at the National Institute of Technology. He has extensively researched on self-excited induction generators for standalone and grid-connected applications. His current research interests include the development of new power converter topologies for renewable energy systems.

- | | |
|-------------------------------------|---|
| 1. Name | Dr. S. Senthil Kumar |
| 2. Designation: | Associate Professor |
| 3. Office Address: | Department of EEE,
National Institute of Technology, |
| 4. Telephone (Direct) (Optional): | |
| Telephone : | Extn (Optional): |
| Mobile (Optional): | |
| 5. Email (Primary): skumar@nitt.edu | Email (Secondary) :
senthilanitha@gmail.com |
| 6. Field(s) of Specialization: | Power Electronics and Drives application
in renewable energy systems |
| 7. Employment Profile | |

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Job Title	Employer	From	To
Associate Professor	National Institute of technology Tiruchirappalli	2018-03-12	Till Date
Assistant Professor	National Institute of technology Tiruchirappalli	2006-04-10	2018-03-12
Lecturer	Valliammai Engineering College, Chennai	2006-03-28	2006-04-08
Lecturer	Rajiv Gandhi College of Engineering and Technology, Pondicherry	2005-06-01	2006-03-27
Lecturer	Rajiv Gandhi College of Engineering and Technology, Pondicherry	2001-06-18	2003-08-06
Lecturer	Pallavan college of Engineering, Kanchipuram	1999-09-03	2001-06-04

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	National Institute of Technology, Tiruchirappalli	2013		
M.Tech	Pondicherry University	2005	First	Electrical Drives and Control
B.E.	Madurai Kamaraj University	1999	First	Electrical and Electronics Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Associate Dean	Planning and Development, NIT Tiruchirappalli	Dec.2017	Till Date
MIS- committee Member	Implementation of New MIS- committee Member	Jan.2018	Till Date
Member (Faculty)	Library advisory committee, NIT	2017-05-31	2017-10-28

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in Charge)	Trichy		
TEQIP Nodal officer	TEQIP, Nodal officer Academic activities, NIT Trichy	2017-09-15	2017-11-11
Faculty Member In-charge	Faculty Member In-charge for Electrical Machine (UG) Laboratories.	2008	Till Date
Warden	Amber hostel, NIT Trichy	2013-07-19	2015-09-15
Member (M.tech Power System)	Member of Department Project Evaluation Committee to Evaluate M.tech Projects.	2010-01-12	2010-06-03
Chairman (8 th Semester B.tech)	Conducting Review Meetings for Teaching Learning Process with Faculty members and Students.	2010-01-12	30-06-2010
Chair Person (3 rd Semester B.tech)	Conducting Review Meetings for Teaching Learning Process with Faculty members and Students.	2011-07-14	2011-12-24
Chair Person (1 st Semester M.tech Power Electronics)	Conducting Review Meetings for Teaching Learning Process with Faculty members and Students.	2012-05-04	2012-12-24
Chair Person (2 nd Semester M.tech Power System)	Conducting Review Meetings for Teaching Learning Process with Faculty members and Students.	2013-01-17	2013-06-30
Chair Person (2 nd Semester M.tech Power System)	Conducting Review Meetings for Teaching Learning Process with Faculty members and Students.	2012—01-13	2012-06-30
Chair Person (6 th Semester B.tech)	Conducting Review Meetings for Teaching Learning Process with Faculty members and Students.	2016-01-20	2016-06-30
Chair Person (8 th Semester B.tech)	8 th Semester B.tech Project Work	2017-01-18	2017-06-30
Member (M.tech Power Electronics)	Member of Department Project Evaluation Committee to Evaluate M.tech Projects.	2016-07-16	2017-06-30
Faculty in- Charge (M.tech, M.S, Ph.D admission)	Processing Application, Preparation of Various List for M.tech, M.S, Ph.D admission.	2012-01-13	2012-12-24
Faculty in-Charge (M.tech, M.S, Ph.D admission)	Processing Application, Preparation of Various List for M.tech, M.S, Ph.D admission.	2011-07-14	2012-06-30
Coordinator and BoS in-charge	M.tech (Power Electronics) Programme	2017-01-13	2017-12-24
Electrical wiring/Decoration In-charge	Festember, NIT Trichy	2006	2012
Electrical wiring/Decoration	NITTFEST	2007	2012

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In-charge			
Electrical wiring/Decoration In-charge	Institute Day	2007	2012
Electrical wiring/Decoration In-charge	Convocation	2006	2012
Associate Warden	Emerald Hostel, NIT trichy	2006-05	2007-07

10. Academic/Administrative Responsibilities outside the University

Position	Institution	Year
Viva Voce for Ph.D Programme	Member of Examination Board, Anna University	2017
Assessment Committee Member	Conduct State Level Skill Summit, District Collector of Thanjavur	2017
Resource Person	National Level Technical Seminar on Recent Trends in Renewable Energy Technologies. Dept. EEE, Sri Subramanya College of Engg.	2017
Evaluation of Thesis - Member of Examination Board	Anna University Ph.D of Mr.Boopathi Raju Evolution Report. ANNA University	2017
Doctoral Committee Member	Doctoral Committee, Dean Academic Research, VIT University	2017
Doctoral Committee Member	Doctoral Committee Meeting for Student Mr. Hanees, Dean Academic Research, VIT University	2016
Doctoral Committee Member	Doctoral Committee Meeting, ANNA University	2016
Doctoral Committee Meeting	Doctoral Committee, Noorul Islam University	2015
Examiner	Examination –Master of Science, College of Agriculture, Engineering and Science	2015
Doctoral Committee Member	Doctoral Committee Meeting for Student Ms. Umamah, ANNA University	2015
Doctoral Committee Member	Doctoral Committee Meeting for Student Ms. R. Divya. ANNA University	2014

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

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Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels

Year	Semester	UG/PG & Branch	Subject	No of credits
2009	Odd	PG POWER SYSTEM	EEE-624 FUZZY SYSTEM	3
2009	Odd	PG POWER ELECTRONICS	EEE-624 FUZZY SYSTEM	3
2009	Odd	UG EEE	EE453-FUZZY SYSTEMS AND GENETIC ALGORITHMS	3
2010	Even	UG EEE	EE202-AC AND SPECIAL MACHINES	3
2010	Even	PG POWER ELECTRONICS	EE652-SWITCHED MODE POWER CONVERSION	3
2011	Odd	UG EEE	EE401-INDUSTRIAL ELECTRONICS	3
2012	Even	PG POWER ELECTRONICS	EE652-SWITCHED MODE POWER CONVERSION	3
2012	Even	UG EEE	EE202-AC MACHINES	4
2012	Odd	UG EEE	EE201-DC MACHINE AND TRANSFORMER	4
2013	Even	UG EEE	EE202-AC MACHINES	4
2013	Even	PG MS	EE652-SWITCHED MODE POWER CONVERSION	3
2013	Odd	UG EEE	EE201-DC MACHINE AND TRANSFORMER	4
2014	Even	UG EEE	EE302-POWER ELECTRONICS	4
2014	Even	Ph.D EEE	EE803-WIND ENERGY ELECTRIC CONVERSION SYSTEMS	3
2014	Even	PG POWER ELECTRONICS	EE652-SWITCHED MODE POWER CONVERSION	3

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2014	Even	UG EEE	EE201-DC MACHINE AND TRANSFORMER	4
2014	Odd	Ph.D EEE	EE803-WIND ENERGY ELECTRIC CONVERSION SYSTEMS	3
2015	Even	PG POWER ELECTRONICS	EE676-PWM CONVERTERS AND ITS APPLICATIONS	3
2015	Even	UG EEE	EE302-POWER ELECTRONICS	4
2015	Odd	UG EEE	EE201-DC MACHINE AND TRANSFORMER	4
2015	Odd	Ph.D EEE	EE643-EMBEDDED SYSTEM DESIGN	3
2016	Even	PHD EEE	EE652-SWITCHED MODE POWER CONVERSION	3
2016	Even	UG EEE	EE302-POWER ELECTRONICS	3
2016	Even	Ph.D EEE	EE804-SIMULATION OF POWER CONVERTER USING MATLAB/SIMULINK	3
2016	Odd	UG EEE	EE201-DC MACHINE AND TRANSFORMER	4
2016	Odd	UG EVEN	EE201-DC MACHINE AND TRANSFORMER	4
2017	Even	Ph.D EEE	EE652-SWITCHED MODE POWER CONVERSION	3
2017	Even	PHD EEE	EE641-DIGITAL SIMULATION OF POWER ELECTRONIC SYSTEMS	3
2017	Even	UG EEE	EE202-AC MACHINES	4

(iii) Projects guided at Postgraduate level

S.No	Title	Student Name	Year
1	Development of Control Scheme for Boost Derived Hybrid Converter for Solar PV Applications.(experimental)	Laveti Arjun	2017
2	Development of Control Strategy for Single Stage Grid-Connected Solar PV System.(experimental)	Pilli Madhu Kiran	2017
3	Development of Control Scheme for Boost Derived Hybrid Converter for Solar PV Applications.(simulation)	Laveti Arjun	2016
4	Development of Control Strategy for Single Stage Grid-Connected Solar PV System.(simulation)	Pilli Madhu Kiran	2016

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5	Control of Single Inductor Based Dual Output/Input Boost DC-DC Converter for Solar PV Applications.(experimental)	Dipankar Biswas	2016
6	Operation and Closed Loop Control of Single Phase Micro Grid System Using Phase Locked loop.(experimental)	Raj Prakash Korapati	2016
7	Investigation of Switching Transients in Vacuum Circuit Breaker for Synchronous Condenser.	Arghya Jana	2016
8	Control of Single Inductor Based Dual Output/Input Boost DC-DC Converter for Solar PV Applications.(simulation)	Dipankar Biswas	2015
9	Operation and Closed Loop Control of Single Phase Micro Grid System Using Phase Locked loop.(simulation)	Raj Prakash Korapati	2015
10	Solar PV and Battery Storage Integration Using a Three-Level NPC Grid-Connected Inverter.	Arghya Jana	2015
11	Performance Enhancement of Grid Synchronization in Single Phase Power Converter.(experimental)	Ramachandrarao Pydi	2015
12	Investigation of Various PWM Techniques for Three-Phase Three-Level Inverter.(experimental)	Peruka Vamshi	2015
13	Control of Three Phase Self-Excited Induction Generator – Matrix Converter System Feeding Stand Alone A.C Loads.(experimental)	Devedera Varma Borru	2015
14	Control of Self-Excited Induction Generator Converter System Feeding Constant DC Voltage Applications.(experimental)	K. Ravi Ratna Roja	2015
15	Performance Enhancement of Grid Synchronization in Single Phase Power Converter.(simulation)	Ramachandrarao Pydi	2014
16	Investigation of Various PWM Techniques for Three-Phase Three-Level Inverter.(simulation)	Peruka Vamshi	2014
17	Control of Three Phase Self-Excited Induction Generator – Matrix Converter System Feeding Stand Alone A.C Loads.(simulation)	Devedera Varma Borru	2014
18	Control of Self-Excited Induction Generator Converter System Feeding Constant DC Voltage Applications.(simulation)	K. Ravi Ratna Roja	2014
19	A Wind Driven Self-Excited Induction Generator Supplying Isolated AC loads.(experimental)	Kenguru Manjunath	2014
20	Self Excitation and Control of a Standalone Wind Power Generation system.(experimental)	Malle Lingamaiah	2014
21	Control of Variable Speed Induction Generators Supplying DC loads.(experimental)	Ponukumati Praveenkumar	2014
22	A Wind Driven Self-Excited Induction Generator Supplying Isolated AC loads.(simulation)	Kenguru Manjunath	2013

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23	Self Excitation and Control of a Standalone Wind Power Generation system.(simulation)	Malle Lingamaiah	2013
24	Control of Variable Speed Induction Generators Supplying DC loads.(simulation)	Ponukumati Praveenkumar	2013
25	Operation and Control of Three-Phase Self-Excited Induction Generator Connected to the Three-Phase grid.(experimental)	S.Sunil Nayak	2013
26	DSP Based Voltage and Frequency Control of Self-Excited Induction generators.(experimental)	V. Praveesh	2013
27	Experimental Investigation and Control of Wind-Driven SEIGs Feeding Stand Alone DC loads.(experimental)	Prasad Chengi	2013
28	Operation and Control of Three-Phase Self-Excited Induction Generator Connected to the Single Phase grid.(simulation)	S.Sunil Nayak	2012
29	Voltage and Frequency Control of SEIGs.(simulation)	V. Praveesh	2012
30	Control of Wind-Driven SEIGs Feeding Stand Alone DC Loads.(simulation)	Prasad Chengi	2012
31	High-Efficiency Voltage-Clamped DC-DC Converter With Reduced Reverse- Recovery Current and Switch-Voltage Stress .	Ravikiran Vasireddy	2012
32	Control of Three-Phase SEIGs Supplying DC Loads Through Single-Phase AC Boost Rectifier.	Pusarla Naveen	2012
33	Abc-Dq Modelling and Control of Wind Driven Self Excited Induction Generator Feeding Stand Alone Ac and Dc Loads.(experimental)	Enaganti Raj Kumar	2012
34	Dq-Modelling and Control of Self-Excited Induction Generator-Converter Systems for Battery Charging Application.	Mahendhar Rageeru	2012
35	An Excitation Scheme for a Stand-Alone Three-Phase Induction Generator Supplying Single Phase Loads	Ravikiran Vasireddy	2011
36	Single Phasing Operation of SEIGs	Pusarla Naveen	2011
37	Abc-Dq Modelling and Control of Wind Driven Self Excited Induction Generator Feeding Stand Alone Ac and Dc Loads.(simulation)	Enaganti Raj Kumar	2011
38	Hysteresis Controller for SEIG-PWM Converter Systems for Battery Charging Applications.	Mahendhar Rageeru	2011
39	DSP Based Control of Matrix Converter for the Operation of Wind- Driven PMSG.(experimental)	S. Ranjith Kumar	2011
40	Unity Power Factor Isolated Three Phase Rectifier With Split DC Bus Based on the Scott Transformer.(experimental)	J. Tukaram	2011
41	Investigation of Various Modulation and Switching Techniques for Single- Phase Matrix	Sravan Kumar Velisela	2011

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	converter.(experimental)		
42	Control Strategies for Three Phase Matrix Converter for the Operation of Wind- Driven PMSG.(simulation)	S. Ranjith Kumar	2010
43	Unity Power Factor Isolated Three Phase Rectifier With Split DC Bus Based on the Scott Transformer.(simulation)	J. Tukaram	2010
44	Investigation of Various Modulation and Switching Techniques for Single- Phase Matrix converter.(simulation)	Sravan Kumar Velisela	2010
45	Continuous Conduction Mode Operation of Three- Phase Single- Switch Boost Rectifier With Constant Load Voltage.	Kartikeyan. T	2010
46	Mixed Mode Operation of Boost Rectifier for Wide Range of Load variations.(experimental)	G. Veeresh Kumar	2010
47	Control of Boost Power Converter	Nagaraju Ghantasala	2010
48	A Systematic Approach for the Control of Boost Power Factor Correction Converter.	P. Guru Nagendra	2010
49	Over Modulation Scheme for Induction Motor Drive.	Kartikeyan. T	2009
50	Mixed Mode Operation of Boost Rectifier for Wide Range of Load variations.(simulation)	G. Veeresh Kumar	2009
51	Model Predictive Control of Multi Variable Four Tank System.	Nagaraju Ghantasala	2009
52	Investigation of PWM Current Control Schemes for Single Phase Power Factor Correction Boost Converter.	P. Guru Nagendra	2009
53	Design and Development of Solar Powered Boost Inverter.	Elizwa Laiju	2009
54	Modelling, Analysis, design and Implementation of Wound Rotor Induction Motor Drive.	S R Prasad Tummalapalli	2009
55	Automatic Classification of Power Quality Issues.	Elizwa Laiju	2008
56	Modelling, Analysis and Design of High Chopper Frequency Drive for Wound Rotor Induction Motor With a Resistively Loaded Rotor Chopper	S R Prasad Tummalapalli	2008
57	Analysis and Design of Single Switch Forward Buck AC-DC Converter for Low Power Battery Charging Applications.	M.Raghupathi Reddy	2008
58	Design and Implementation of a Reduced Order Observer for Inductor Current Estimation in Buck Type Rectifier.(experimental)	P. Nagaraju	2008
59	Design and Development of Energy Efficient Sensor less Direct Torque Controlled Induction Motor Drive.(experimental)	M. Sathish Kumar	2008
60	Analysis, Design and Development of Neural Network Controller for UPS Inverter	M.Raghupathi Reddy	2007

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	Applications.		
61	Design of a Reduced Order Observer for Inductor Current Estimation in Buck Type Rectifier.(simulation)	P. Nagaraju	2007
62	Performance Enhancement of Neuro- Fuzzy Based Sensor less Direct Torque Control of an Induction Motor Drive.(simulation)	M. Sathish Kumar	2007
63	Reduction of Ripples and Flux Droops in Sensor less Direct Torque Control of an Induction Motor Drive.	S.Sampath Kumar	2007
64	Rotor Resistance Estimation Technique for Indirect Vector Controlled Induction Motor Drive.	G.R.K. Nagaraju	2007
65	Performance Enhancement of Sensor less Direct Torque Control of an Induction Motor Drive.	S.Sampath Kumar	2006
66	Sensor less Field- Oriented Control for Double-Inverter- Fed Wound- Rotor Induction Motor Drive.	G.R.K. Nagaraju	2006

(iv)Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
National Mission on Power Electronics Technology	Ministry of Communications & Information Technology, C-DAC Trivandram,	2008-03	2009-09	Completed
Dynamic Loading of conveyor Drive Heads in Mines & Funding Agency for the Project specimen	NLC-Neyveli	21 months		Completed
Design and Development of Solar Photo-Voltaic Powered Cold Storage System	Department of Science and Technology, Govt. of India	36	2016 - 2019	Ongoing

15. Number of PhDs guided

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Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Supervisor)	Co-	Year of Award
Sumedha Mahajan	Control Strategies for standalone operation of Induction Generator System with certain power electronic converter topologies	supervisor		2018
Saraojini Samikannu	Investigations on static reconfiguration techniques of modules and power electronic controllers for solar photovoltaic systems	supervisor		2017

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
2016	National level workshop on control of electric drives and advanced power converters	national	speaker	Karunya university	Karunya university
2016	National level workshop on research challenges in special electric	national	speaker	Karunya university	Karunya university

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	machines				
2014	National workshop on modelling and simulation power electronic circuits	national	speaker	CARE group of institutes	CARE group of institutes
2016	UGC sponsored workshop on ECPV FED EDS	national	speaker	Annamalai university	Annamalai university

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Fuzzy Systems	National	2007-02-24 to 2007-02-26	Coordinator	NIT Trichy
Recent Trends in Modelling and simulation in Power Systems and Power Electronics	National	2007-03-30 to 2007-02-31	coordinator	NIT Trichy
Modelling of electrical system using Matlab simulink	National	2012-07	coordinator	NIT Trichy
Wind Driven Generators	National	2013-12-13 to 2013-12-14	coordinator	NIT Trichy
Operation and control of wind driven generators	national	2016-04-15 to 2016-04-16	coordinator	NIT Trichy

18. Invited Talks delivered

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Topic	Date	Inviting Organization
Conduct state level skill summit	2017	Sri subramaniya college of engineering and technology
Lecture programs on control of induction generators	2017	Institute of Engineers
Faculty development program on EE2352 – solid state drives	2013	PSR engineering college
Faculty development program on power electronic applications in FACTS and renewable energy	2016	Alagappa chettiar college of engineering and technology
BoS meeting	2013	RGM college of engineering
Faculty development program on Intelligent controllers in renewable energy system	2014	Alagappa chettiar college of engineering and technology
	2016	Annamalai university
Guest lecture	2009	MAM college of technology
Guest lecture	2007	Sethu Institute of technology

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Society for Technical Education.	
Life Member	Institute of engineers.	
Ordinary member	Board of Studies in various technical institutes	

20. Academic Foreign Visits

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Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Gurusamy Madhusudanan, Subramaniam Senthilkumar, I. Anand, Padmanaban Sanjeevikumar	A shade dispersion scheme using Latin square arrangement to enhance power production in a Solar photovoltaic array under partial shading conditions	Journal of Renewable and Sustainable Energy	10		2018	
Akbarali, M.S., Subramaniam, S.K. Natarajan, K. J.	Real and Reactive Power Control of SEIG Systems for Supplying Isolated DC Loads	Inst. Eng. India Ser. B	99	587–595	2018	
Anand I, Senthilkumar Subramaniam Dipankar Biswas Kaliamoorthy M	Dynamic Power Management System employing single stage Power Converter for Standalone Solar PV Applications	IEEE Transactions on Power Electronics	33	10352 - 10362	2018	
Krishnan Arthishri Kumaresan Anusha Natarajan	Simplified methods for the analysis of self-excited induction generators	IET Electric Power Applications	11	1636 - 1644	16 November 2017	

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Kumaresan Subramaniam Senthil Kumar						
Sumedha Mahajana Senthil Kumar Subramaniama Kumaresan Natarajana Ammasai Gounden Nanjappa Goundera Devendra VarmaBorru	Analysis and control of induction generator supplying stand-alone AC loads employing a Matrix Converter	Engineering Science and Technology, and International Journal	20	649-661	April 2017	
Sumedha M. Mahajan, Subramaniam Senthil Kumar, Natarajan Kumaresan, Nanjappa Gounder Ammasai Gounden, Eanaganti Rajkumar	Decoupled control strategy for the peration of capacitor-excited induction generator for DC power applications	IET Power Electronics	9	2551–2561	4th August 2016	
Sarojini Mary Samikannu, Rakesh Namani, Senthil Kumar Subramaniam	Power enhancement of partially shaded PV arrays through shade dispersion using magic square configuration	Journal of Renewable and Sustainable Energy	8		December 2016	
Samikannu Sarojini Mary,	A Dual DC Output Power Supply for a	Electric Power Components	43	939-950	2015	

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Subramaniam Senthil Kumar, Syam Prasad Poluru Maddikara Jaya Bharata Reddy	Stand-alone Photovoltaic System	and Systems, Taylor and Francis				
Subramaniam Senthil Kumar, Natarajan Kumaresan, Muthiah Subbiah	Analysis and control of capacitor-excited induction generators connected to a micro-grid through power electronic converters	IET- Generation, Transmission and Distribution	9	911–920	2015	
S. Senthil Kumar, N. Kumaresan, M. Subbiah Mahendhar rageeru	Modelling, analysis and control of standalone self-excited induction generator-PWM rectifier systems feeding constant dc voltage applications	IET- Generation, Transmission and Distribution	8	1140–1155.	2014	
S.Senthil Kumar, N. Kumaresan, N. Ammasai Gounden, Namani Rakesh	Analysis and control of wind-driven self-excited induction generators connected to the grid through power converters	Frontiers in Energy, Springer	6	403–412	2012	
S.Senthil Kumar, N.Kumaresan, N. Rakesh, K.Vijayakumar M. Subbiah	Wind-driven SEIGs for supplying isolated loads employing DSP based power electronic controllers	International journal of Wind Engineering	36	739–758	2012	

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J. Chelladurai, G. Saravana Ilango, C. Nagamani, S. Senthil Kumar	Investigation of Various PWM Techniques for Shunt Active Filter	International Journal of Electrical Systems Science and Engineering	1	1-7		
S. Senthil Kumar, S. Moorthi K. Lakshmi Narayana	Investigation of Various PWM Techniques for Solar Powered Three-Phase UPS Inverter Application	The IUP Journal of Electrical & Electronics Engineering	5	29-41	January 2012	
M. Kaliamoorthy, B. Ramireddy, B. Saravanan, S. Senthil Kumar,	A Novel Carrier for Sinusoidal Pulse Width Modulation Based Full Bridge Inverter	i-manager's Journal on Electrical Engineering	1	64-69	December 2007	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Confer ence Theme	Venue	Year
D. K. Behera, I. Anand, B. Malakond a Reddy, S. Senthil kumar	A Novel Control Scheme for a Standalone Solar PV System Employing a Multiport DC-DC Converter	2018 9 th Internation al Conference on Computing, Communicati on and Networking Technologies (ICCCNT)	1-6		Bengaluru, India	2018
Namani Rakesh, N.	Major methods of steady-state analysis of three- phase SEIGs-A	Proceedings of the 3 rd IEEE International	415-419		Kathmand u, Nepal	2012

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Kumaresan, S. Senthil Kumar M. Subbiah	summary	Conference on Sustainable Energy Technologies (IEEE ICSET 2012)				
Namani Rakesh, N. Kumaresan, S. Senthil Kumar M. Subbiah	Performance predetermination of variable speed wind-driven grid-connected SEIGs	Proceedings of the IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2012)			Bengaluru, India.	2012
S. Senthil Kumar, N. Kumaresan, T. Karthikeyan	A Simple Analog Voltage Controller for Three-Phase Single Switch Boost Rectifier	Proceedings of 10th International Conference on Environment and Electrical Engineering (EEEIC-2011)	8-11,		Rome, Italy	May 2011,
Kumar, S.S. Dharmireddy, G. Raja, P. Moorthi, S.	A voltage controller in photovoltaic system without battery storage for Stand-Alone Applications	International Conference on Electrical, Control and Computer Engineering (INECCE)	269 – 274.			2011
M.Kaliyamoorthi, S.Senthil Kumar	Solar Powered Boost Inverter with Neural Network Based MPPT algorithm	International Conference on Energy Conversion Technologies, ICAECT				January 7th to 10th 2010

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		2010				
Tukaram, J. Kumar, S.S. Ganesh, D. Kumar, V.S.	Investigation of PWM current mode controllers for UPF three phase - Rectifier with split DC bus based on the Scott transformer	Advances in Power Conversion and Energy Technologies (APCET), 2012 International Conference	2-4			Aug. 2012
A.Mary Beula , S.Magesh wari S.Senthil Kumar,	Simplified Topology For Single-Phase To Three-Phase Conversion For Induction Motor Drive Using A Single-Phase Half-Bridge PWM Boost Rectifier And A Three-Leg Inverter	National Conference on Electrical Engineering and Embedded Systems			Anna University , Chennai, India.	March 20 th -21 st 2008
S. Senthil Kumar S. Sampath Kumar,	Fuzzy Logic Based Sensor less Direct Torque Control Of Induction Motor Drive	National Conference on Power Electronics And Intelligent Control			Malaviya National Institute of Technology, Jaipur-302017, India.	March 17-18, 2007
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