

## **PROFILE**

### **Dr T Sree Renga Raja**

Professor

Department of Electrical and Electronics Engineering

University College of Engineering Nagercoil

(A Constituent College of Anna University)

Nagercoil – 629004, Tamil Nadu

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***(Deployed from BIT Campus, Tiruchirappalli)***



Residential Address : 15/10, Sri Krishna,  
Pasumai Street, Melaperuvilai, Asaripallam  
Kanyakumari Dist – 629 201, Tamil Nadu

Date of Birth : 20.02.1976

### **Educational Qualification**

<b>Sl. No</b>	<b>Degree</b>	<b>Specialization</b>	<b>Year of Passing</b>	<b>University</b>
1	Ph.D.	Electrical Engineering	Dec. 2007	Anna University
2	M.E.	Power System	Nov. 1999	Annamalai University
3	B.E.	Electrical & Electronics Engineering	Apr. 1998	Manonmaniam Sundaranar University
4	M.B.A.	Human Resource	Nov. 2005	Madurai Kamaraj University

**Ph.D. Thesis: Economic Load Dispatch using Cascade Correlation Algorithm with Environment Constraints.**

**M.E. Thesis: Short term Generation Scheduling with Environmental Constraints**

**Elective Subjects** : 1. State Estimation & Security Control of Power Systems.  
2. Expert Systems and their application to Power Systems.  
3. Reactive Power Compensation in Transmission Systems.

**Working Experience**

<b>Sl No</b>	<b>Organization</b>	<b>Position</b>	<b>From</b>	<b>To</b>
1	University College of Engineering Nagercoil Nagercoil – 629004	Professor	20.08.2015	Till date
2	University College of Engineering Nagercoil Nagercoil – 629004	Associate Professor	02.07.2014	19.08.2015
3	Anna University, BIT Campus, Tiruchirappalli – 620 024	Associate Professor	20.08.2012	01.07.2014
4	Anna University of Technology, Tiruchirappalli – 620 024	Assistant Professor	02.07.2007	19.08.2011
5	Government College of Engineering, Tirunelveli – 627007	Teaching Research Associate	20.09.2002	25.06.2007
6	Noorul Islam College of Engineering, Kumaracoil – 629 180	Lecturer	02.01.2001	19.09.2002
7	The Indian Engineering College, Vadakankulam – 627 116	Lecturer	14.04.2000	26.12.2000

**Research Guidance**

Number of Research Scholars completed Ph.D. under my guidance: 12

Number of Research Scholars doing Ph.D. under my guidance : 6

Number of M.E. thesis guided : 24

**Research Scholars Supervised**

<b>SI. No</b>	<b>Name</b>	<b>Title</b>	<b>Year</b>
1.	R. Femi	Designing High Gain DC-DC Converter Model for BLDC Drive Applications Using Sustainable Energy System	2022
2.	M. Karthikeyan	Implementation of Evolutionary Algorithm for Solving Economic Load Dispatch with Practical Constraints	2019
3.	R. Thanigaiselvan	Investigation of Rapeseed Oil and Pongamia Pinnata Oil as Alternate Insulating Fluid for Power Transformer	2016

4.	R. Ilango	A Comprehensive Study of the Impact Analysis of FACTS devices on Relay Protection and at Midpoint	2016
5.	R Niruban	Demosaicing Algorithms for Color Image Processing and Enhancement	2016
6.	S.P Mangaiyarkarasi	Risk based voltage security assessment and mitigation in Power Systems using Hybrid Optimization Algorithm	2015
7.	S. Vijayalakshmi	Discrete PID Controller for DC-DC Converter using Bilinear Transformer Technique	2015
8.	G Kannan	An Integrated framework for Performance Enhancement in Hierarchical cluster based Wireless sensor network	2014
9.	J. Mahil	Adaptive Controllers for minimizing Infant ECG Interference Signals using Artificial Intelligence based Algorithms	2014
10.	D. Sam Harison	Profit Based Unit Commitment with Environmental Constraints in Restructured Power System	2014
11.	R. Shenbagalakshmi	Observer based stabilization techniques for DC DC converters using pole placement and linear quadratic optimal regulator methods	2013
12.	R. Karthik	Investigations on liquid insulation system and enhancement of their characteristics in power transformer	2013

### **Awards**

- Received Railway Board's 1<sup>st</sup> Prize for the Paper titled "Modelling and Simulation of Digital Compensation Technique for DC-DC converter by Pole Placement, Journal of the Institution of Engineers(India), series B, Pages 1422-1428, 2014" organized by The Institution of Engineers (India) held at Kolkata on 16<sup>th</sup> Dec 2016
- Received Green9 Energy Contributor Award for the achievement in the field of Energy Technology in VISION 2020 held at Trichy on 20<sup>th</sup> May 2018

### **Memberships**

- Life Membership in ISTE.
- Fellow of the Institution of Engineers (India)
- Membership in Society of Power Engineers (India)
- Reviewer for Springer, Wiley and Elsevier Journals

## **International Representations**

- Participated in the **Ship for World Youth – 2001 (SWY14)** and visited Japan, Saipan, Fiji, New Zealand, Singapore and Thailand from 25.10.2001 to 05.12.2001 as a member of 10-member Indian delegation.
- Participated in the **21<sup>st</sup> Century Renaissance Youth Leaders Invitation Program 2002** in Japan from 26.09.2002 to 09.10.2002 as a member of 4-member Indian delegation.
- Participated in the **11<sup>th</sup> Tokyo Conference** in Singapore and Japan from 21.02.2006 to 06.03.2006 as alone representative of the country.
- Participated in the **10<sup>th</sup> SWYAA Global Assembly India 2016** held at New Delhi from 20.09.2016 to 24.09.2016

## **Academic and Additional Responsibilities held**

- Zonal Coordinator, Zone XVII, Anna University Examinations, University College of Engineering, Nagercoil from 25.10.2018 to till date.
- Dean, University College of Engineering Nagercoil, from 15.10.2018 to 11.10.2021.
- Head, Department of Electrical and Electronics Engineering, University College of Engineering Nagercoil from 26.07.2016 to 12.01.2020
- Coordinator, Technical Education Quality Implementation Programme (TEQIP-II), BIT Campus, Anna University, Tiruchirappalli sponsored by World Bank with sanctioned amount of Rs. 10.00 Crores from 26.03.2013 to 30.06.2014.
- Deputy Director, Centre for Affiliation of Institutions, Anna University, Regional Centre, Tiruchirappalli from 12.09.2012 to 04.02.2013.
- Professor, Planning and Development, Anna University of Technology, Tiruchirappalli from 28.09.2010 to 22.07.2011.
- Director, Centre for Admissions, Anna University of Technology, Tiruchirappalli from 23.10.2010 to 31.07.2012.
- Chairman, Faculty of Electrical Engineering, Anna University of Technology, Tiruchirappalli from 14.01.2008 to 31.07.2012.
- Special Officer and Dean, Anna University of Technology, Ramanathapuram Campus from 31.07.2008 to 31.12.2010.
- YRC Programme Coordinator, Anna University of Technology, Tiruchirappalli from 03.11.2008 to 27.05.2011.

- RRC Programme Coordinator, Anna University of Technology, Tiruchirappalli from 03.11.2008 to 27.05.2011.
- Head, Department of Electrical and Electronics Engineering, Anna University of Technology, Tiruchirappalli from 14.01.2008 to 02.07.2014.
- NSS Programme Coordinator, Anna University of Technology, Tiruchirappalli from 14.09.2007 to 27.05.2011.

### **Inspection and Research Experience**

- Chairman / Member of the inspection Committee for the grant of affiliation to the Colleges affiliated to Anna University Chennai from 2007.
- Chairman / Member of the inspection committee for the grant of Research Centres recognition to the Research and Development Centres from 2008.
- Recognized Supervisor for Ph.D. and M.S. (Research), Anna University Chennai.

### **Testing & Consultancy**

1. Performed the testing of Electrical components for Nagercoil Corporation for a value of Rs. 10.88 Lakhs in December 2020

### **Training Programmes Conducted**

- Organized a Six days Programme on Science and Technology Capacity Building for Industrial Needs sponsored by Tamil Nadu State Council for Science and Technology at University College of Engineering Nagercoil from 24.03.2022 to 30.03.2022
- Organized the online Faculty Development Programme on Stress Management sponsored by ATAL Academy at University College of Engineering Nagercoil from 14.12.2021 to 18.12.2021
- Organized the Faculty Development Programme on Pedagogical Training in association with NITTR, Chennai sponsored by TEQIP – II at BIT Campus, Trichy from 09.12.2013 to 23.12.2013
- Organized the Faculty Development Programme on Soft Computing Techniques in Electrical Engineering sponsored by TEQIP – II at BIT Campus, Trichy from 19.08.2013 to 25.08.2013
- Organized Southern States NSS Pre-Republic Day Camp 2010 sponsored by Ministry of Youth Affairs & Sports, Government of India at Trichy from 11.10.2010 to 20.10.2010.

## **Training Programmes attended**

- Participated in the online Faculty Development Programme on Future Automation of Power System Protection in Indian Power Sector organized by Dept. of EEE, BIT Campus, Trichy from 26.11.2021 to 09.12.2021 sponsored by AICTE
- Participated in the online Faculty Development Programme on Productivity Enhancement through Effective Stress Management organized by Indian Institute of Technology Guwahati from 15.10.2021 to 19.10.2021 sponsored by ATAL Academy
- Participated in the Yoga for Unity and Well-being, 100 days Yoga Program organized by Ministry of AYUSH from 14.03.2021 to 21.06.2021 towards the International Day of Yoga 2021
- Participated in online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education from 10.08.2020 to 14.08.2020
- Participated in the One-day workshop on “Intellectual Property Rights & Innovations” organized by University College of Engineering, Nagercoil on 5<sup>th</sup> April 2018
- Participated in the Faculty Development Programme on “Entrepreneurship” organized Entrepreneurship Development Institute of India (EDII) at Annamalai University, Annamalai Nagar from 11.12.2017 to 23.12.2017
- Participated in the Faculty Development Programme on Recent Trends in Renewable and Non Renewable Energy Sources organized by TEQIP and BIT Campus, Trichy from 26.08.2013 to 01.09.2013
- Participated in the Managerial Effectiveness: Focus Change Management organized by Rajasthan State Productivity Council at Goa from 23.11.2013 to 27.11.2013
- Participated in the “ISTE-CON 2008 Trichy” organized by Sudharsan Engineering College, Sathiyamangalam, Pudukkottai Dt on 13<sup>th</sup> & 14<sup>th</sup> August 2008
- Participated in the National Service Scheme General Orientation Course organized by Madras School of Social Work, Chennai from 18.08.2008 to 27.08.2008
- Participated in the Staff Development Program on Soft Techniques for Measurement and Automation organized by the Dept. of EIE, Noorul Islam College of Engineering, Kumaracoi during 05.05.2007 to 17.05.2007
- Participated in the One-day workshop on “DSP Controller for Special Machines – PMSM” organized by the Department of EEE, Government College of Engineering, Tirunelveli-7 on 4<sup>th</sup> May 2007
- Participated in the Two days’ workshop on “Embedded Controller (dsPIC30F 4011) for Switched Reluctance Motor” organized by the Department of EEE, Government College of Engineering, Tirunelveli on 1<sup>st</sup> & 2<sup>nd</sup> March 2007

- Participated in the AICTE-ISTE sponsored short term training Programme on “Emerging Trends in Power System Operation and Control” organized by Department of Electrical Engineering, Annamalai University, Annamalai Nagar from 1.06.2004 to 12.06.2004
- Participated in the Third State NSS Motivational Cum Cultural Festival” organized by the Tamil Nadu NSS Cell and the NSS Regional Centre, Chennai held at St. Xavier’s College (Autonomous) Palayamkottai from 26.12.2001 to 30.12.2001
- Participated in the course advanced training in “Maintenance & Servicing of Electrical Motors & Its Speed Controls” organized by Advanced Training Institute, Chennai from 28.08.2000 to 31.08.2000

### **Conferences Organized**

- National Conference - CIPRES’14 - Issues in Power Quality & Renewable Energy Systems 29<sup>th</sup> & 30<sup>th</sup> April, 2014 at BIT Campus, Anna University, Tiruchirappalli
- National Conference – NESR-’11 – “Electrical Systems and Renewable Energy on 18<sup>th</sup> March 2011 at BIT Campus, Anna University, Tiruchirappalli
- National Conference – PEDAC-’09 – “Power Electronics and Drives Application Conference” on 2<sup>nd</sup> April 2009 at BIT Campus, Anna University, Tiruchirappalli
- 3<sup>rd</sup> National Conference – NACPED-’07 – “Emerging Trends in Electrical Engineering and Power Drives” on 4<sup>th</sup> April 2007 at Government College of Engineering, Tirunelveli
- 2<sup>nd</sup> National Conference – NACPED-’06 – “Emerging Trends in Electrical Engineering and Power Drives” on 3<sup>rd</sup> April 2006 at Government College of Engineering, Tirunelveli
- National Conference – NACPED-’05 – “Emerging Trends in Electrical Engineering and Power Drives” on 20<sup>th</sup> April 2005 at Government College of Engineering, Tirunelveli

### **Invited Talks and Session Chair**

1. Resource Person in the online Faculty Development Programme on Stress Management sponsored by ATAL Academy at University College of Engineering Nagercoil on 18.12.2021
2. Session Chair in the International Conference on Energy Efficient Technologies for Sustainability (ICEETS 16) organized by St. Xavier’s Catholic College of Engineering, Nagercoil, April 2016
3. Session Chair in the Springer International Conference on Soft Computing Systems (ICSCS-2015) organized by Noorul Islam Centre for Higher Education. Kumaracoil, April 2015

4. Session Chair in the IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT-2015) organized by Noorul Islam Centre for Higher Education. Kumaracoil, March 2015
5. Delivered a Technical Lecture in the IEEE International Conference on Emerging Trends in Science, Engineering, Business and Disaster Management (ICBDM 2015) by Noorul Islam Centre for Higher Education. Kumaracoil, February 2015
6. Delivered a Technical Lecture in the IEEE International Conference on Emerging Trends in Science, Engineering, Business and Disaster Management (ICBDM 2014) by Noorul Islam Centre for Higher Education. Kumaracoil, February 2014
7. Session Chair in the IET International Conference on Sustainability Energy and Intelligent System (SEISCON 2013) organized by KCG College of Technology, Chennai, December 2013
8. Session Chair in the International Conference on Emerging Trends in Electrical Engineering (ETIEE 13) organized by Maria College of Engineering and Technology, Attoor, April 2013
9. Session Chair in the IEEE International Conference on Automation, Computing, Control, Communication and Compressed Sensing organized by St. Joseph's College of Engineering and Technology, Palai, March 2013
10. Session Chair in the IET International Conference on Sustainability Energy and Intelligent System (SEISCON 2013) organized by Vivekanandha College of Technology for Women Namakkal, December 2012
11. Session Chair in the IEEE International Conference on Advanced Communication, Control & Computing Technologies (ICACCCT 12) organized by Syed Ammal Engineering College, Ramanathapuram, August 2012
12. Session Chair in the IET International Conference on Sustainability Energy and Intelligent System (SEISCON 2011) organized by Dr MGR Educational & Research Institute, Chennai, July 2011
13. Session Chair in the National Conference on Recent Trends in Electrical and Computer Technology 2010 organized by Syed Ammal Engineering College, Ramanathapuram, March 2010

### **Books Published**

1. **K Raja, M C Sashaikumar, R Dhanasekaran, T Sree Renga Raja**, Total Quality Management, Published by Bonfring, India, ISBN 9789384743666, 2015
2. **T Sree Renga Raja, H Habeebullah Sait, R Gandhiraj**, Electrical Drives and Control (Tamil), (Pages:190), Published by Centre for Academic Courses, Anna University of Technology, Tiruchirappalli ISBN:9788192112817, 2011



3. **T Sree Renga Raja, R Thanigaiselvan, S P Mangaiarkarasi**, Basic Electrical and Electronics Engineering (Tamil), (Pages:141), Published by Centre for Academic Courses, Anna University of Technology, Tiruchirappalli, ISBN:9788192112824, 2011

## List of Publications

### International Journals

1. **R. Femi, T. Sree Renga Raja & R. Shenbagalakshmi**, Performance Comparison of Optimization Algorithm Tuned PID Controllers in Positive Output Re-Lift Luo Converter Operation for Electric Vehicle Applications, IETE Journal of Research, DOI: 10.1080/03772063.2022.2073275, 2022
2. **R Femi, T Sree Renga Raja, R Shenbagalakshmi** A positive output-super lift Luo converter fed brushless DC motor drive using alternative energy sources, International Transactions on Electrical Energy Systems, Vol. 21, Issue 2, Page 1-23, 2020
3. **M Karthikeyan, T. Sree Renga Raja**, Solution to Optimization Problem through Evolutionary Algorithm using Weighting Function Method, Applied Mathematics and Information Science - An International Journal, Vol. 12, Issue 1, Pages 249-253, 2018
4. **M Karthikeyan, T. Sree Renga Raja**, An Improved Fire Fly Algorithm to Solve Economic Load Dispatch Problem including Practical Constraints, Journal of Advances in Chemistry, Vol.12, Issue 25, Pages 5672-5676, 2016
5. **M Karthikeyan, T. Sree Renga Raja**, Implementation of Evolutionary Algorithm for profit based Power Generation using FACTS devices, International Journal of Advanced Engineering Technology, Vol. 7, Issue 2, Pages 942-945, 2016
6. **R. Thanigaiselvan, T. Sree Renga Raja**, Enrichment of used Transformer Oil using Activated Bentonite and Comparison of Various Transformer Oils with Vegetable Oil, International Journal of Chem Tech Research, Vol. 9, Issue 1, Pages 128-133, 2016
7. **R. Ilango, T. Sree Renga Raja**, Fault Location Method for STATCOM connected Transmission Lines Using CCM, Circuits and Systems, Vol. 7, Issue 10, Pages 3131, 2016
8. **R. Ilango, T. Sree Renga Raja**, Impact Analysis of DSSC on Distance Relay Performance under Fault Conditions, Indian Journal of Science and Technology, Vol. 8, Issue 33, Pages 1-6, 2016
9. **R. Ilango, T. Sree Renga Raja**, Impact Analysis of D-STATCOM on the Performance of Distribution Relay Protection, International Journal of Applied Engineering Research, Vol. 10, Issues 5, Pages 12939-12950, 2015

10. **M Karthikeyan, S. P. Mangayarkarasi, T. Sree Renga Raja**, An Effective Biogeography Based Algorithm for Power System Optimization, International Journal of Applied Engineering, Vol. 10, Issue 51, Pages 342-347, 2015
11. **M Karthikeyan, T. Sree Renga Raja**, A Meta heuristic Algorithm for Non Convex Dynamic Economic Dispatch, Journal of Engineering and Technology Research, Vol. 3, Issue 4, Pages 1-7, 2015
12. **R. Ilango, T. Sree Renga Raja**, Impact analysis of Midpoint Connected STATCOM on Distance Relay Performance, TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol. 13, Issue 2, Pages 257-263, 2015
13. **R. Thanigaiselvan, T. Sree Renga Raja, R. Karthik**, Investigations on Eco friendly Insulating Fluids from Rapeseed and Pongamia Pinnata Oils for Power Transformer Applications, Journal of Electrical Engineering and Technology, Vol. 10, Pages 709-716, 2015
14. **S. Vijayalakshmi, T. Sree Renga Raja**, Development of robust discrete controller for double frequency Buck Converter, Automatika, Vol. 56, Issue 3, Pages 303-317, 2015
15. **G Kannan, T. Sree Renga Raja**, Energy efficient distributed cluster head scheduling scheme for two tiered wireless sensor network, Egyptian Informatics Journal, Vol. 16, Issue 2, Pages 167-174, 2015
16. **J. Mahil, T. Sree Renga Raja, T. Sree Sharmila**, Optimization algorithms for adaptive filtering of interferences in corrupted signal, Indian Journal of Pure & Applied Physics, Vol. 53, Pages 274-281, 2015
17. **R Niruban, T. Sree Renga Raja, R. Deepa**, Similarity and Variance of Color Difference Based Demosaicing, TELKOMNIKA Indonesian Journal of Electrical Engineering, Volume 13, Issue 2, Pages 238-246, 2015
18. **T. Sree Renga Raja, R. Niruban.**, Color filter array interpolation by decision based oriented directional filter in digital camera, International journals of soft computing, Volume 10, Issue 2, Page 110-117, 2015
19. **T. Sree Renga Raja, G. Kannan**, Power Saving Algorithm for Long Life Wireless Sensor Networks, International Journal of Innovative Research in Technology, Vol. 1, Issue 4, Pages 50-53, 2014
20. **R Niruban, T. Sree Sharmila, T. Sree Renga Raja**, Color Filter Array Demosaicing using Weighted Edge with Color Difference Property, Pensee Journal, Vol. 76, Issue 3, Pages 478-489, 2014
21. **R Niruban, R. Deepa., T. Sree Renga Raja**, Demosaicing of images for bayer CFA using projection algorithm, International Journal of Research in Engineering and Technology, Volume 3, Issue 5, Pages 408-416, 2014
22. **R Niruban, M. Arthi, T. Sree Renga Raja**, Directional color Difference Based Demosaicing, International Journal of Advanced Research in Electronics,

23. **R. Niruban, T. Sree Renga Raja, R. Deepa**, Color Filter array Demosaicing using directional color difference and gradient method, International Journal of Technical Research and application, Volume 2, Issue 4, Pages 14-18, 2014
24. **S. Vijayalakshmi, T. Sree Renga Raja**, Time Domain based Digital PWM Controller for DC DC Converter, Automatika – Journal for Control, Measurement, Electronics, Computing and Communications, Vol. 55, Issue 4, Pages 434-445, 2014
25. **R. Shenbagalakshmi, T. Sree Renga Raja**, Modelling and Simulation of Digital Compensation Technique for DC-DC converter by Pole Placement, Journal of the Institution of Engineers(India), series B, Page 1422-1428, 2014
26. **R. Shenbagalakshmi, T. Sree Renga Raja**, Observer-based controller for current mode control of an interleaved boost converter, Turkish Journal of Electrical Engineering and Computer Sciences, Volume 22, Issue 2, Pages 341-352, 2014
27. **R. Shenbagalakshmi, T. Sree Renga Raja**, Discrete prediction controller for DC-DC converter, Acta Scientiarum Technology, Volume 36, Issue 1, Pages 41-48, 2014
28. **R. Karthi k, T. Sree Renga Raja, S. S. Shunmugam**, Performance evaluation of transformer oil using UV-visible spectrophotometer, Acta Scientiarum Technology, Volume 36, Issue 2, Pages 245-250, 2014
29. **Sree Renga Raja T., S. P. Mangaiyarkarasi**, PSO based optimal location and sizing of SVC for novel multi objective voltage stability analysis during N-2-line contingency, Archives of Electrical Engineering, Volume 63, Issue 4, Pages 535-550, 2014
30. **T. Sree Renga Raja, S. P. Mangaiyarkarasi**, Optimal location and sizing of multiple static VAr compensators for voltage Risk assessment using hybrid PSO-GSA Algorithm, Arabian Journal for Science and Engineering, Volume 39, Pages 7967-7980, 2014
31. **T. Sree Renga Raja., S. P. Mangaiyarkarasi**, A novel Analytical Study on Voltage Instability Mitigation using multiple severity function by optimal placement of SVC in N-2 Contingency Analysis Using Gravitational Search Algorithm, WSEAS TRANSACTION on POWER SYSTEMS, Volume 9, Pages 407-417, 2014
32. **R. Ilango., T. Sree Renga Raja**, Accurate distance protection scheme for transmission line fault location considering the impact of shunt connected STATCOM, Middle-east journal of scientific Research, Volume 21, Issue 11, Pages 2123-2129, 2014

33. **S. Vijayalakshmi, T. Sree Renga Raja., R. Somavadivu, L. Maheswari, K.R. Vairamani,** Time Domain Based Digital Controller for Sepic Converter, Applied Mechanics and Materials, Vol. 573, Pages 130-135, 2014
34. **S. Vijayalakshmi, T. Sree Renga Raja.,** Time Domain based Digital PWM Controller for DC-DC Converter, Automatika – Journal for Control, Measurement, Electronics, Computing and Communications, Vol. 55, Issue 4, Pages 434-445, 2014
35. **S. Vijayalakshmi, T. Sree Renga Raja.,** Time domain based digital controller for buck-boost converter, Journal of Electrical Engineering and Technology, Volume 9, Issue 5, Pages 1551-1561, 2014
36. **T. Sree Renga Raja, T. Sree Sharmila, R. Niruban,** Novel colour filter array demosaicing in frequency domain with Spatial Refinement, Journal of Computer Science, Volume 10, Issue 8, Pages 1591-1599, 2014
37. **Shenbagalakshmi R., Sree Renga Raja T.,** Design and Implementation of Observer Controller for a Buck Converter, Turkish Journal of Electrical Engineering and Computer Sciences Volume 22, Issue 3, Pages 562- 572, 2014
38. **J. Mahil, Sree Renga Raja T.,** An intelligent biological inspired evolutionary algorithm for the suppression of incubator interference in premature infants ECG, Soft Computing, A Fusion of Foundations, Methodologies and Applications, Soft Computing Volume 18, Issue 3, Pages 571-578, 2013
39. **G Kannan, T. Sree Renga Raja,** An Efficient Cluster-based Reliable Power Aware Scheme (RPAS) for Network Longevity in WSN, WSEAS Transactions on Computers, Vol. 12, Issue 9, Pages 366-373, 2013
40. **Karthik R., Sree Renga Raja T., Willjuice Iruthayarajan M.,** Investigations of Furanic derivatives in transformer oil using Ultra Violet light absorption property, IET Electric Power applications, Volume 7, Issue 2, Pages 123 – 130, 2013
41. **Shenbagalakshmi R., Sree Renga Raja T.,** Modelling and Implementation of ZCS Buck Converter, Przegląd Elektrotechniczny, (Electrical Review), Volume 89, Number 5, Pages 54 -58, 2013, (R. 89 NR 5/2013)
42. **Sam Harison D., Sree Renga Raja T.,** Swarm Intelligence to the Solution of Profit-Based Unit Commitment Problem with Emission Limitations, Arabian Journal for Science and Engineering, Vol. 38, No. 6, Pages 1415-1425, February 2013.
43. **J. Mahil, T. Sree Renga Raja,** Suppression of Electromagnetic Interference in ECG Signal using Artificial Intelligent Algorithm, International Journal of Soft Computing, Vol. 8, Issue 3, Pages 192-198, 2013

44. **J. Mahil, T. Sree Renga Raja.**, Genetic algorithm optimized neural network based adaptive ECG interference canceller for premature Infants in Incubators, IEAS international Journal of artificial intelligence, Volume 2, Issue 4, Pages 169-172, 2013
45. **Mahil J., Sree Renga Raja T.**, An Artificial Bee Colony Algorithm for the Adaptive Filtering of Incubator Interference in Premature Infants ECG, Archives Des Sciences, Vol 66, No. 5, Pages 573-582, May 2013
46. **Karthik R., Sree Renga Raja T.**, Investigations of Thermal degradation and spectral response of transformer oil, Acta Scienataria Technology, Volume 35, Number 2, Pages 255-262, 2013.
47. **Karthik R., Sree Renga Raja T., Sudhakar T.**, Deterioration of solid insulation for thermal degradation of transformer oil, Central European Journal of Engineering, Volume 3, Issue 2, Pages 226-232, June 2013
48. **Karthik R., Sree Renga Raja T., Madavan R.**, Enhancement of critical characteristics of transformer oil using nanomaterials, Arabian Journal for Science and Engineering, Volume 38, Number 10, Pages 2725- 2733, October 2013.
49. **T. Sree Sharmila, K. Ramar, T. Sree Renga Raja.**, Impact of applying Pre-processing techniques for improving classification accuracy, signal, Image and video processing, Volume 8, Issue 1, Pages 149-157, 2013
50. **J. Mahil, T. Sree Renga Raja**, Hybrid Swarm Algorithm for the Suppression of Incubator Interference in Premature Infants ECG, Research journal of Applied Sciences, Engineering and Technology, Vol. 6, Issue 16, Pages 2931-2935, 2013
51. **Parithimarkalaignan T., Sree Renga Raja T.**, Analysis of Harmonic Minimization on Shunt Active Filter using Evolutionary Programming Techniques, Archives Des Sciences, Vol. 66, No. 2, Pages 19- 30, Feb 2013
52. **Sree Sharmila T., Ramar K., Sree Renga Raja T.**, Developing an efficient technique for satellite image denoising and resolution enhancement for improving classification accuracy, Journal of Electronic Imaging, Volume 22, Number 1, Pages 013013-1, Jan 2013
53. **Shenbagalakshmi R., Sree Renga Raja T.**, Implementation of Robust Prediction Observer Controller for DC-DC Converter, Journal of Electrical Engineering and Technology, Vol. 8, Issue 6, Pages 1389-1399, 2013
54. **Karthik R., Sree Renga Raja T., Shunmugam S. S., Sudhakar T.**, Performance Evaluation of Ester Oil and Mixed Insulating Fluids, Journal of The Institution of Engineers (India): Series B, Electrical, Electronics & Telecommunication and Computer Engineering, Vol. 93, No.3, Pages 173-178, 2012

55. **Shenbagalakshmi R., Sree Renga Raja T.,** Closed loop Control of Soft Switched Interleaved Buck Converter, International Review on Modelling and Simulations, Vol.5, No.5, Pages 1910-1918, 2012
56. **S. Vijayalakshmi, T. Sree Renga Raja,** Design and Implementation of a Discrete Controller for Soft Switching DC-DC Converter, Journal of Electrical Engineering, Vol. 12, Issue 3, Pages 1-8, 2012
57. **Shenbagalakshmi R., Sree Renga Raja T.,** Observer Based Pole Placement and Linear Quadratic Optimization for DC-DC Converters, Journal of Electrical Engineering, Vol.12, No.4, Pages 1-8, 2012
58. **R. Shenbagalakshmi R., Sree Renga Raja T.,** Closed Loop Control of Soft Switched Interleaved Buck Converter, International Journal of Power Electronics and Drive System Vol.2, No.3, Pages 313-324, September 2012
59. **Mahil J., Sree Renga Raja T., Anto Spiritus Kingsly .A.** An Artificial Neural Network Algorithm for the Suppression of Incubator Interference in Premature Infants ECG, European Journal of Scientific Research, Vol. 91, No.4, Pages 531-538, Dec. 2012
60. **Sam Harison D., Sree Renga Raja T.,** PSO Based Solution for the Optimal Location and Control Parameter Settings of UPFC in a Restructured Power System, European Journal of Scientific Research, Volume 83, Number 4, Pages 590-601, 2012
61. **Karthik R., Sree Renga Raja T.,** Investigations of Transformer oil characteristics, IEEJ Transactions on Electrical and Electronic Engineering, Volume 7, Number 4, Pages 369-373, July 2012
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