

Dr. K SATHIYASEKAR, B.E., M.Tech., Ph.D.

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Career Objective

To establish myself to improve the standard of profession and empowering the faculty and students with necessary skills, qualities, knowledge, attitude and value of time.

1. Academic Details

Degree	Specialization	Name of the School / College	% Marks or CGPA	Year of Passing	Part Time / Full Time / Distance Mode
Ph.D.	High Voltage Engineering	Anna University	NA	2010	Part Time
Post – graduate	High Voltage Engineering	SASTRA University	7.8 CGPA	2002	Full Time
Under Graduate	Electrical and Electronics Engineering	Government College of Engineering / Madras University	60.3%	1999	Part Time
Diploma	Electrical and Electronics Engineering	Sakthi Institute of Technology	81.8%	1989	Full Time
SSLC	--	Government High School	78%	1985	Full Time

2. Experience

Sl. No.	Institution / Industry Name	Position / Title	From	To	No. of Years & Month
1	K S R Institute for Engineering and Technology, Tiruchengode	Director R&D, Professor / EEE	1.6.2023	till-date	1 Year 3 Months
2	Prathyusha Engineering College, Chennai	Professor / EEE	12.6.2019	26.4.2023	3 Years 10 Months

3	S.A. Engineering College, Chennai	Professor /EEE	27.12.2012	5.6.2019	6 Yrs 5 Months
4	C.M.S. College of Engineering, Namakkal	Professor & Principal	1.7.2011	27.8.2012	1 Yr 1 Month
5	K.S.R. College of Engineering, Tiruchengode	Professor & HoD /EEE	18.9.2002	30.6.2011	9 Yrs
6	K.S.Rangasamy Institute of Technology, Tiruchengode (Polytechnic)	Lecturer / EEE	2.7.1990	18.9.2001	11 Years

3. Publication Details (List Enclosed in Annexure – I)

Category	Conferences	Journals
National	14	02
International	13	60
Total Citation: 196	h index: 9	i 10 index : 8
Number of SCI/WoS Journal	21	Number of Scopus Journal
		29

4. Programmes Organized / Attended

Category	Conferences	Workshops	FDP / SDP / STTP
Organized	05	10	03
Attended	25	12	05

5. Research (Ph.D.) - Under my Supervision

Anna University Supervisor ID: **2730002**

Particulars	Ph.D. Completed	Waiting for Viva- voce Exam	Under Publication stage	Newly Signed
Number of Candidates	15	--	07	1

6. Patent Particulars

Application Number	Month & Year	Title	Status
202041009636	April, 2020	Power Scheduling of Micro Grid in Radial Distribution System	Published
202041025510	July, 2020	System for Solar Powered Automated Multitasking Robot for Agricultural Applications	Published
202041028086	July, 2020	IoT Based Smart Automated Aquaponics System	Published
202041028431	July, 2020	A Restricted Elementary care in the Healthcare System with Blockchain Technology	Published
202041068487	December, 2020	A Smart Energy Metering System using Internet of Things	Published
202011068486	December, 2020	A method for Rainfall Prediction using Artificial Neural Network	Published
2021101292	April, 2021	An Novel Method for Empowering Edge Computing for source allocation based learning for Industrial IoT	Granted
2021102588	May, 2021	Touchdown Aviation and Thrust Powered Runway with IoT	Granted
2021104730	July 2021	Dual Windmill in Highway Power Generation	Granted
202241036688	June 2022	Conditional Monitoring of Transformers using IoT	Published

7. Project Funds Received from the External Agencies

Name of the Agency	Amount (Rs in Lakhs)	Scheme Name	Title of the Project	Duration and Period
MSME	250 L	Business Incubation Cell	10 Projects per Year	4 Years
MNRE	0.5 L	FDP	Recent Trends in Renewable Energy	-

8. Consultancy Particulars

Category I:

Created Centre of Excellence in Robotics and Industrial Automation

The following are the Consultancy Work carried out through this centre:

- i. Received Best Innovation Project in HVC-2017-18 with cash prize of Rs.10000/- at Noida
- ii. Received Best Technical Award in ESVC-2018 at Andrapradesh.
- iii. Trained more than 1000 students in the field of Automation
- iv. Automatic Bike Washing Machine at Ambattur.
- v. Electrical Control Panel Wiring for Gear Hobbing Machine at Madras Engineering Industries Pvt Ltd., Ambattur.
- vi. Automatic Fastners Packing Machine, SMPC India Pvt Ltd., Gummidipoondi.
- vii. Automatic Brick Manufacturing Machine, SBI Chamber, Aarani.
- viii. Electrical Control Panel Wiring Leak Testing Machine, TVS WABCO, Mahendra City, Chennai.
- ix. Hydraulic Power Pack Automatic Gate Control, Faurecia, Sriperumbur.
- x. Automatic Tool Cutting Machine, FIEM Industries Pvt Ltd., Hosur.
- xi. Training Program for School Students, Ebenezar matriculation Higher Secondary School, Avadi.

Category II:

Created Centre of Excellence in Power and Energy System in collaboration with NIWE

Power Quality Audit are carried out through this centre:

- i. NTPC – Vindhyachal, Madhyapradesh.
- ii. NTPC – Kudgi, Karnataka
- iii. ReNEW Solar Plant, Karnataka
- iv. CMRL – Shenoy Nagar, Chennai
- v. CMRL – Kilpauk, Chennai
- vi. TATA Communications, Ambattur
- vii. Load Flow studies were completed with University of Tenaga, Malaysia.

Category III:

Having **Electrical Supervisor Certificate C:49718**

- i. Commissioned 1250kVA, 11kV/415V Power Transformer, 800 A VCB along with modified Control Panel with a cost of Rs.1.5 Crore at S.A.Engineering College, Chennai
- ii. Commissioned 1250 kVA/, 22kV/415V Power Transformer, 800 A VCB, VFD Drive along with Control Panel with a cost of Rs.2 Crore at M/s. Dharmadev Blue Metals, Pandruty.
- iii. Commissioned 150kW Solar Plant in S.A.Engineering College, Chennai
- iv. Commissioned 3*1650Kva, 11kv/415V Power Transformer in KSR Group of Educational Institutions, Tiruchengode with a cost of Rs.25 Crore
- v. Erected Electrical Machines Laboratory in various Institutions like,
 - a. K.S.Rangasamy College of Technology, Tiruchengode
 - b. KSR College of Engineering, Tiruchengode
 - c. Nandha Engineering College, Perundurai
 - d. Annai Madhammal Sheela Engineering College, Namakkal
 - e. Tagore Institute of Engineering and Technology, Attur
 - f. Andavar Polytechnic College, Gobichettipalayam
 - g. EICT Polytechnic College, Perundurai

9. Membership in Professional Bodies : ISTE, IE

10. Any Other Information

CREENTIALS

- ❖ Acted as an Expert Member for Ph.D. viva-voce examination (University Nominee)
- ❖ Received Outstanding Research Supervisor Award of the Year 2020 from DHS Foundation in collaboration with CAMPBELL University, North Carlonia, USA.
- ❖ Received an award of „Certificate of Outstanding Contribution in Reviewing' from International Journal of Electrical Power and Energy Systems, Elsevier, Amsterdam, The Netherlands.
- ❖ Awarded Travel Grant of Rs.1.70 lakhs from the Department and Science and Technology, Government of India and to present my research article in the International Conference INDUCTICA-2010, at Messe Berlin, Germany in 2010.
- ❖ Reviewer for various reputed journals like IEEE Industrial Electronics, IJ of Power and Energy System-Elsevier, Technical Gazette and Australian journals etc.
- ❖ Received Best Paper Award in the International Conference on Digital Factory – 2008, held at CIT, Coimbatore.
- ❖ Editorial Board Member in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering
- ❖ Technical Advisor for M/s.Current Electricals Pvt. Ltd., Erode and M/s. SMS Electricals, Salem
- ❖ Created PMKK Centre, authorized by NSDC, Government of India at S.A.Engineering College and received a fund of **Rs.15 Lakhs per Annum**.
- ❖ Through PMKK Centre, arranged various Training Programme for our students and Rural based students and also provide Placements.
- ❖ Centre Head for SPARK Automation Centre at SA Engineering College.
- ❖ Acting as an IQAC, NBA and Academic Excellence Co-Ordinator
- ❖ Organized various funded programmes Sponsored by AICTE, CSIR, ISTE, MNRE, AUT.
- ❖ Produced 100% pass in the university examinations.

Tie-up with the following Industries and Government Agencies :

For High Voltage Engineering

1. Central Power Research Institute (CPRI), Bangalore
2. Coral Rewinding Industries Pvt Ltd., Erode
3. Current Electricals Pvt Ltd., Erode
4. SPS Transformers Pvt Ltd., Coimbatore
5. Megawin Switchgears Pvt Ltd., Salem
6. Minnatral Power System, Chennai

For Renewable Energy and Power Quality Audit

1. National Institute of Wind Energy (NIWE), Chennai
2. National Productivity Council (NPC), Chennai
3. EnSave Consultancy Pvt Ltd., Chennai
4. Voltech Group of Companies, Chennai
5. INEL Power System, Chennai
6. Solar Quest Pvt Ltd., Chennai
7. SMS Electricals, Salem
8. University of Tenaga, Malaysia
9. Power Projects (ABB Client), Chennai

Known - Foreign University Professors

1. Dr R Hamid and Dr Y Pen, University of Georgia, Georgia
2. Dr J L Munda, Tshwane University of Technology, South Africa
3. Dr Sanjeevikumar Padmanaban, Aalborg University, Denmark
4. Dr Vignakumaran, University of Tenaga, Malaysia

11. General Information

Name	Dr K Sathiyasekar
Date of Birth & Age	17.02.1971 & 50
Gender	Male
Marital Status	Married
Father / Spouse Name	Mr N Kumarasamy
Mother Tongue & Languages Known	Tamil & English
Nationality & Religion	Indian & Hindu
Correspondence Address	
Permanent Address	
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ksathiyasekar@gmail.com	9443908900	9677888459 9677145189

12. References

Name	Dr S Thangavel
Designation	Dean (Academic) / Department of EEE
Organization	National Institute of Technology Puducherry, Karaikal
Contact Number	9443676688
Email	thangavel.s@nitpy.ac.in

Name	Dr N Selvaganesan
Designation	Professor / Department of Avionics
Organization	Indian Institute of Space Science and Technology, Kerala.
Contact Number	9446060698
Email	n_selvag@iist.ac.in

Place : Erode
Date : 16.08.2024



Signature of the Applicant

Annexure - I

List of Publications:

International Journals

1. Hima Vijayan, Subramaniam M and **Sathiyasekar K**, (2022), "A Hybrid Intelligent Clustering Model for Tackling incomplete Mixed Data using Heuristic Algorithm with Artificial Intelligence" **Journal of Cybernetics and Systems, Taylor & Francis** – Accepted.
2. Bharatiraja c and **Sathiyasekar K**, (2022), "Sensor Fusion Based Intelligent Hydroponic Farming and Nursing System", **IEEE Sensors Journal**, Vol.22, No.14, July 2022
3. Bharatiraja c and **Sathiyasekar K**, (2022), "A Review of BLDC Motor: State of Art, Advanced Control Techniques, and Applications", **IEEE Access Journal**, Vol.10, May 2022.
4. Karthick S, **Sathiyasekar K**, Anuradha B and Karthikeyan S, (2022), "Automatic Coronary Artery Image Segmentation and Catheter Detection in Angiographic Images", **Journal of NeuroQuantology**, Vol.20, Issue.8, pp.4754-4765.
5. Ramesh P, Balaji Damodhar, **Sathiyasekar K**, Vinoth J and Bharatiraja C (2022), "Minimization of Leakage Current in a maximum boost control impedance source transformer-less inverter", **Elsevier Materials Today: Proceedings**, Vol.65, Part 1, pp.250-257.
6. Umavathi M, Santhakumar C, **Sathiyasekar K**, Bharatiraja C, and Sivaprasad Athikkal (2022), "Minimum device usages of field programmable gate array (FPGA) verification of multilevel PWM inverter drive generation", **Elsevier Materials Today: Proceedings**, Vol.65, Part 1, pp.313-321
7. Santhakumar C, Paneer Selvam M, **Sathiyasekar K**, Thenmozhi R and Bharatiraja C, (2022), "An extended boost diode-clamped impedance source inverter for electrical vehicle power train motor drive", **Elsevier Materials Today: Proceedings**, Vol.68, Part 6, pp.1874-1879.
8. Selvalakshmi B, Subramaniam M and **Sathiyasekar K** (2021), "Semantic Conceptual Relational Similarity Based Web Document Clustering for Efficient Information Retrivel Using Semantic Ontology", **Journal of KSII Transactions on Internet and Information Systems**, Vol.15, Issue 9.

9. Aparna, N & **Sathiyasekar, K** 2019, "Efficient Segmentation of Brain Tumor Using FL-SNM with a Metaheuristic Approach to Optimization", **Journal of Medical Systems**, vol. 43, no. 25, DOI:10.1007/s10916-018-1135-y, ISSN: Print ISSN:0148-5598; E-ISSN:1573-689x. (Impact Factor : 2.415).
10. Gopinath, S & **Sathiyasekar, K**, (2019) "Insulation Condition Assessment of High Voltage Rotating Machines using Hybrid Techniques", **IET : Generation, Transmission and Distribution**, Vol.13, No.2, pp.No.171- 180
11. Krishnan, S & Sathiyasekar, K (2019), "A Novel Salp Swarm Optimization MPP Tracking Algorithm for the Solar Photovoltaic Systems under Partial Shading Conditions", **Journal of Circuits, Systems and Computers**, Vol.29, No.01.
12. Gopinath, S & Sathiyasekar, K, (2018) "Prediction and Classification of Insulation Failures in Rotating Machines – an Enhanced Approach", **International Journal of Manufacturing Technology and Management – Inderscience Publishers**, DOI:10.1504/IJMTM.2017.10011945, ISSN online: 1741-5195, ISSN print: 1368-2148
13. Saravanakumar, N & Sathiyasekar, K, (2018), "Circular Array of Ultrasonic Sensor based DOA estimation: Location of multiple Partial Discharge in Transformer oil", **Journal of Electromagnetic Waves and Applications**, Vol.32, No.12, pp.No.1569-1585.
14. Saravanakumar, N & Sathiyasekar, K, (2018) "Efficient Method for Location and Detection of Partial Discharge in Transformer Oil by DOA Estimation of Circular Array of Ultrasonic Sensors", **Journal of Instrumentation**, Vol.13.
15. Durairaj, S, **Sathiyasekar, K**, & Ilangkumaran, M, (2017), "Decentralised Green Power Generation Using Methyl Esters of Non-Edible Oils", **Journal of Technical Gazette**, Vol.24, No.6, pp.1723-1728.
16. **Sathiyasekar, K**, Belwin Edward, J, Rajasekar, N, Senthilnathan, N & Sarjila, R (2013), "An enhanced bacterial foraging algorithm approach for optimal power flow problem including FACTS devices considering system loadability", **Elsevier-International Journal ISA Transactions**, vol. 52, no. 5, pp. 622-628.
17. **Sathiyasekar, K**, Thyagarajah, K & Krishnan, A, (2011), "Neuro fuzzy based predict the insulation quality of high voltage rotating machine", **Elsevier-International Journal on Expert Systems with Applications**, vol. 38, pp. 30, pp. 1066-1072.
18. Durairaj, S, **Sathiyasekar, K** & Ilangkumaran, M (2016), "Selection of alternate fuel for electrical power generator using hybrid multi criteria decision making technique", **Scientific Bulletin, Series C: Electrical Engineering and Computer Science**, vol.78, no.1, pp. 247-258.
19. Nirmala R & **Sathiyasekar, K** 2016, "Design of Sub Sampling Filter

20. Krishnan, S & Sathiyasekar, K (2018) "IoT Based Memetic Maximum Power Optimization for Photovoltaic Remote Monitoring and Controlling System", **Journal of Web Engineering** Vol.17, No.6 pp.2201-2225
21. Karthick, S & **Sathiyasekar, K** 2016, "**Performance Identification Using Morphological Approach on Digital Mammographic Images**", **Current Signal Transduction Therapy**, vol. 11, no. 2, pp. 63-70.
22. Balakrishnan, P & **Sathiyasekar, K**, "Wavelet and Kernel Principal Component Analysis (KPCA) Based Fuzzy-Neuro Technique to Detect, Classify Power Transmission System Faults", **Australian Journal of Electrical and Electronics Engineering**, vol. 12, no. 1, pp.1-12.
23. **Sathiyasekar, K**, Mohanasundaram, K & Rajasekar, K 2012, "Neuro-fuzzy Controller for High Performance Induction Motor Drives", **International Journal on Computer Applications**, vol. 38, no. 10, pp. 12-16.
24. Valliammal, L & Sathiyasekar K, (2020), "**Optimal Selection of Filter for Noise Reduction in Brain MRI Images**", **Journal of Bio-medical Materials and Engineering (Under Review)**
25. Valliammal, L & Sathiyasekar K, (2023), "**Removal of Noise in Brain MRI Images by Selection of Optimal Filter**", **IETE Journal of Research (Under Review)**
26. Sathiyasekar K, (2020), "Effect of Panel Materials on the Performance of Solar Cells", *Advanced Research in Dynamical & Control Systems Journal*.
27. Sathiyasekar K, (2020), "Prevalent Glitches in Generation of Solar Power using PV Panels-As Indian Scenario", *Advanced Research in Dynamical & Control Systems*, Vol.12, No.07, 2020
28. Sathiyasekar K, (2020), "Enhancing the Performance Analysis of large capacity power plant using Electrical Transient Analyzer Program", *Test Engineering & Management - Vol.83, March-April 2020*.
29. Sathiyasekar K, (2020), "Improving the Performance of Solar Power Plants in Grid Connected Modes using Altruistic Transformative Algorithm", *ICTACT Journal on Micro Electronics*
30. Nirmala R & **Sathiyasekar, K** 2016, "Implementation of Discrete Wavelet Transform in SoC Using Vedic Mathematics", *Asian Journal of Information Technology*, vol. 15, no. 10, pp. 1559-1569.

31. Balakrishnan, P & **Sathiyasekar, K** 2016, "Efficient Fault Detection Based on Localization and Classification of Transmission Line Using Morlet Discrete Neuro Fuzzy Logic Wavelet Transform", Asian Journal of Information Technology, Vol.15, No.21, pp.4325-4332.
32. Durairaj, S, **Sathiyasekar, K** & Ilangkumaran, M 2016, "Selection of optimum biodiesel for rural electrification using hybrid MCDM technique", Asian Journal of information Technology (Vol.15, No.21, pp.4355-4362.
33. Nirmala R & **Sathiyasekar, K** 2016, "Implementation of Vedic Mathematics Based 1-Dimensional Discrete Wavelet Transform Architecture", Journal of Circuits, Systems and Computers", (Under review with manuscript number: WSPC-JCSC-D-16-00541).
34. Saravanan, C & **Sathiyasekar, K** 2016, "Impact of Distributed Generation on Loss, Voltage Profile, Equipment Loading and Short Circuit Level With SVC By Using ETAP", International Journal of Advanced Engineering Technology, vol.7, no.2, pp.782-788.
35. Saravanan, C & **Sathiyasekar, K** 2016, "Reliability Evaluation of Real Time Power system with SVC by Using ETAP", Asian Journal of Research in Social Sciences and Humanities. (Accepted for publication)
36. Divya T, Nirmala R & **Sathiyasekar K** "Improvements of Block based parallel in image Compression Algorithm" International journal of Advanced Research in Electronics and Communication Engineering ,Volume 4. Issue.3., March-2015,pp.0445-0448
37. Krishnan, S & **Sathiyasekar, K** 2015, "Design and Optimization of Solar Photovoltaic Energy by Modified Structure and Reflector Based System", International Journal of Applied Engineering Research, vol. 10 no.46, pp 32068-32073.
38. Balakrishnan, P, **Sathiyasekar, K** & Rakkimuthu, S 2014 "Transmission Line Protection Based on Discrete Wavelet Transform", International Journal of Applied Engineering Research, vol. 9, no.24, pp. 27379-27392.
39. Durairaj, S, **Sathiyasekar, K** & Ilangkumaran, M 2014, "Multi criteria decision making approach to evaluate the optimum fuel in diesel power generator", International Journal of Applied Engineering Research, vol. 9, no. 23, pp. 22867-22885.
40. Gopinath, S & **Sathiyasekar, K** 2014, "Simulation of Partial Discharges in Solid Dielectric Material: A Study on PD Magnitudes to the Parallel and Perpendicular Axis of a Cylindrical Cavity", International Journal of Engineering and Technology, vol.6, no. 4, pp. 1786-1792.

41. Karthick, S & **Sathiyasekar, K** 2014, "An Analysis on Blood Vessel Segmentation, Extraction and Techniques", International Journal of Scientific Research and Education, vol. 2, no. 2, pp. 307-316.
42. Karthick, S & **Sathiyasekar, K** 2014, "A Survey on Hard Exudates Detection and Segmentation", International Journal of Scientific Engineering and Technology, vol. 3, no.2, pp. 154 – 158.
43. Karthick, S & **Sathiyasekar, K** 2014, "**Image Processing Method To Measure The Severity of Fungi Caused Disease In Leaf**", **International Journal of Advanced Research**, vol. 2, no. 2, pp. 95-100.
44. Karthick, S & **Sathiyasekar, K** 2014, "**The Survey on Various Clustering Technique for Image Segmentation**", **International Journal of Advanced Research in Electronics and Communication Engineering**, vol. 3, no. 1, pp. 47-50.
45. Karthick, S & **Sathiyasekar, K** 2014, "**A Research Review on Different Data Hiding Techniques**", **International Journal of Engineering and Computer Science**, vol. 3, no. 1, pp. 3655-3659.
46. Karthick, S & **Sathiyasekar, K** 2014, "**A Survey Based on Region Based Segmentation**", **International Journal of Engineering Trends and Technology**, vol. 7, no. 3, pp. 143-147.
47. Karthick, S & **Sathiyasekar, K** 2014, "**A Survey on Nuclear-To-Cytoplasmic Ratio Analysis Using Image Segmentation**", **International Journal of Research in Engineering and Technology**, vol. 3, no. 1, pp. 507-510.
48. Sonika, S, **Sathiyasekar, K** & Jaishree, K 2014, "Intelligent accident identification system using GPS, GSM modem", International Journal of Advanced Research in Computer and Communication Engineering, vol. 3, no. 2, pp. 5487-5489.
49. **Sathiyasekar, K** & Karthick, S 2013, "**A Survey on Block Matching Algorithms for Motion Estimation** **International Journal of Scientific and Engineering Research**", vol. 4 no. 7.
50. **Sathiyasekar, K**, Thyagarajah, K & A.Krishnan, 2012 "Automated Fabric Defect Recognition System using Image Processing and Artificial Neural Networks with the Support of Microcontroller", European Journal of Scientific Research, vol. 67, no. 4, pp 595-601.

51. **Sathiyasekar, K,** Thyagarajah, K & Krishnan, A, 2010, "Adaptive Neuro Fuzzy Inference System for the Analysis of High Voltage Rotating Machines", Electrical Insulation Magazine, pp.1.
52. **Sathiyasekar, K,** Thyagarajah, K & Krishnan, A, 2010, "Predict the Insulation Performance of High Voltage Rotating Machines using Optimization Techniques", International Journal on Electronic and Electrical Engineering, vol. 13, pp. 673-679.
53. **Sathiyasekar, K, Thyagarajah,** K, Krishnan, A, Ebenezer Jeyakumar, A & Mahendran, R 2009 "Fuzzy based diagnosis of insulation of 6.6kv high voltage rotating machine", International Journal of Engineering Research and Industrial Applications, vol. 2, no. 5.
54. **Sathiyasekar, K,** Thyagarajah, K, Krishnan, A & Ebenezer Jeyakumar, A 2009, "A Partial Discharge Analysis in High Voltage Rotating Machines Using BPN algorithm, International Journal of Applied Engineering Research, vol. 4, no. 1, pp. 53-63.
55. **Sathiyasekar, K,** Thyagarajah, K, Krishnan, A & Ebenezer Jeyakumar, A 2009, "Condition Monitoring of Stator Winding Insulation in High Voltage Rotating Machines using BPN Algorithm, International Journal of Electrical and Power Engineering, vol. 3, no. 2, pp. 119-123.

National Journals

1. **Sathiyasekar, K,** Thyagarajah, K & Krishnan, A 2010, "Investigation of Insulation Performance of High Voltage Rotating Machines using Intelligent Techniques", Central Power Research Institute Journal, vol. 6, no. 2.
2. **Sathiyasekar, K,** Thyagarajah, K, Krishnan, A & Ganesan, V 2007, "A Novel Partial Discharge Analysis in the Stator Winding of 60 MW / 11 kV Alternator Using Neural Network", Journal of Technical and Vocational Education, vol. 24, no. 1, pp 61-66.

International Conference

1. Balakrishnan P and **Sathiyasekar K** (2022), "Selection of optimal mother wavelet for transmission line protection", International Conference on Cognitive Computing and Intelligent Communication Systems (CCICS-2022)
2. **Sathiyasekar K** (2021), "Optimization of Power Quality in a Solar PV Interfaced Distribution System using D-B-D Based AI Techniques", International Conference on Emerging Technologies in Electrical Engineering (ICETEE-2021).
3. Krishnan, S & **Sathiyasekar, K** (2014), "Modified Structure and Reflector based Solar Photovoltaic System for Optimization of Solar Energy", IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), pp. 309-313.
4. Saravanababu, K, Balakrishnan, P & **Sathiyasekar, K** (2013), "Transmission Line Fault Detection, Classification and Location using Discrete Wavelet Transform", International Conference on Power Energy and Control (ICPEC), pp. 233-238.
5. **Sathiyasekar, K** & Gopinath, S 2013, "Study of Partial Discharge Mechanism in Solid Insulation System – A Review, International Interdisciplinary Research Seminar.
6. **Sathiyasekar, K** & Karthick, S 2012, "**A Survey on Digital Image Segmentation International, Conference on Futuristic Automation & Control Engineering, FACE.pp 14-15**
7. **Sathiyasekar, K** & Saravanan, S 2012, "A An Optimal Wind Power Generation of variable speed AC Generator by using Advanced Sensor and Microcontroller", International, Conference On Futuristic Automation & Control Engineering, FACE.pp 13-14.
8. **Sathiyasekar, K**, Thyagarajah, K & Krishnan, A, 2010, "Adaptive Neuro Fuzzy Inference System for the Analysis of Insulation Performance of High Voltage Rotating Machines", INDUCTICA Conference and the Coil Winding International and Electrical Insulation Magazine, pp.1. **(Travel Grant Sponsored by DST)**
9. **Sathiyasekar, K**, Thyagarajah, K, Krishnan, A & Ebenezer Jeyakumar, A & Mahendran R, 2009, "Diagnosis of insulation performance of high voltage rotating machines using neural network", International Conference of Operation Research Applications in Engineering and Management (ICOREM), pp. 239.
10. **Sathiyasekar, K**, Thyagarajah, K, Krishnan, A 2009, "Neuro fuzzy based predict the insulation quality of high voltage rotating machines", International Conference on Mechanical and Electronics Engineering.
11. **Sathiyasekar, K**, Thyagarajah, K, Krishnan, A & Prakasam, K 2008,

"Application of BPN Algorithm for Evaluating Insulation Behaviour of High Voltage Rotating Machines", [Won the Best Paper Award], International Conference on Digital Factory, pp1200-1205.

12. **Sathiyasekar, K**, Prakasam, K, Krishnan, A & Thyagarajah, K 2008, "Non-Destructive Testing of Motors by Partial Discharge Method", International Conference on Resources Utilization and Intelligent Systems, pp. 452-455.
13. **Sathiyasekar, K**, Thyagarajah, K, Krishnan, A & Ganesan V 2007, "A Novel Partial Discharge Analysis In The Stator Winding Using Neural Network", Central Power Research Institute and IEEE Bangalore Section, pp 49.

National conference

1. **Sathiyasekar, K**, Thyagarajah , K, Ramesh, S, A & Prakasasm, K 2008, „Condition Monitoring of Stator Winding Using Genetic Algorithm", National Conference on Application of Emerging Technologies.
2. Prakasam,K, Mythili,S, **Sathiyasekar, K** & Ramesh, S 2008, „Enhance the Insulation Condition Monitoring of high Voltage Rotating Machines using Optimization Techniques", National conference on Recent Trends in Electrical, Electronics, Instrumentation and Communication Engineering.
3. Prakasam,K, Mythili,S, **Sathiyasekar, K** & Ramesh, S 2008, „Enhance the Insulation Condition Monitoring of high Voltage Rotating Machines using Optimization Techniques", National Conference on Intelligent Techniques in Electrical, Electronics and Instrumentation Engineering.
4. **Sathiyasekar, K**, Thyagarajah , K, Pandey, RK & Prakasam, K 2008 , „Assessing the Condition of Stator Winding Insulation in High Voltage Rotating Machines Using BPN Algorithms", National Conference on Reliability & Life Extension Techniques of Electrical Equipments in Power System.
5. **Sathiyasekar, K**, Arunkumar, S, Thyagarajah, K & Krishnan, A 2007, "Non Destructive Testing of Rotating Machines by Partial Discharge Method", NCRTEEC 2007.
6. **Sathiyasekar, K**, Gokulkrishnan, A, Thyagarajah , K & Krishnan, A 2007 , "Partial discharge analysis on rotating machines", National Conference on Extreme Engineering and Technological advancements-XETA -2k7.
7. **Sathiyasekar, K**, Thyagarajah, K, Krishnan, A & Sanavulah, MY, 2007, "Non- Destructive Testing of 60MW Alternator using Neural Network", NSI-32.
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