

FACULTY PROFILE

Dr.K.SAKTHIVEL

Professor

Department of Computer Science and Engineering

K.S.Rangasamy College of Technology (Autonomous)

Tiruchengode

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Tamil Nadu – 637 215

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Academic Qualifications:

S.No.	Course	Institution	Board / University	Year of Passing	Class Obtained
1.	Ph.D. (ICE)	K.S.Rangasamy College of Technology	Anna University, Chennai	July 2012	-
2.	M.E. (CSE)	VMKV Engineering College	Anna University, Chennai	June 2005	First Class with Distinction
3.	MCA	Urumu Dhanalakshmi College	Bharathidasan University, Trichy	April 1997	First Class
4.	B.Sc (Maths)	Bishop Heber College	Bharathidasan University, Trichy	April 994	Second Class

Area of Interest:

Image processing, Data mining

Employment details with Experience:

Organization	Designation	Period		Year of Experience
		From	To	
K.S.Rangasamy College of Technology, Tiruchengode	Professor	01.08.2012	Till date	10.10
	Associate Professor	01.07.2010	31.07.2012	2.1
	Associate Professor	01.06.2007	30.06.2010	3.1

	Senior Lecturer	01.06.2005	31.05.2007	2.0
	Lecturer	20.11.1998	31.05.2003	4.6
VLB Janakiammal College of Engineering and Technology, Coimbatore	Lecturer	25.05.1997	19.11.1998	1.6
Total				24 Years

FUNDS RECEIVED

Received **Rs.95,444** from MHRD, Govt. of India towards Two week ISTE Work Shop on Computer Programming under the National Mission on Education through ICT, 21st April to 26th April 2014.

Title of Ph.D. Thesis: Performance Enhancement in Image Retrieval Using Hierarchical Agglomerative K-means and WDRM Algorithms

Recognized Supervisor for Ph.D:

Faculty of Information and Communication Engineering in Anna University, Chennai
(Supervisor Recognition Number: 2840145).

- **Anna University ID: 7377098**
- **AICTE ID: 1-461677947**

Ph.D. Scholar Details:

S.No.	Reg.No.	Name	Degree	Faculty	Reg.Session &Year	Supervisor	Status
1.	10960122071	Sudha S	Ph.D.	Science	JUL 2008	Joint Supervisor	Completed (04..01.2018)
2.	17144691104	Gopinath S	Ph.D.	ICE	JAN 2017	Supervisor	Completed (05/05/2023)
3.	17133697197	Bharathi V	Ph.D.	Elec	JUL 2017	Supervisor	Viva-Voce is Scheduled on (29/05/2023)
4.	17244697171	Sudha K	Ph.D.	ICE	JUL -2017	Supervisor	Confirmation Completed
5.	17244697231	Abirami G	Ph.D.	ICE	JUL - 2017	Supervisor	Confirmation Completed
6.	19244697113	Pugazharasi K	Ph.D.	ICE	JUL - 2019	Supervisor	Confirmation Completed
7.	19254697292	Menaka A	Ph.D.	ICE	JUL - 2019	Supervisor	Confirmation Completed

8.	21124697375	Seenivasan D	Ph.D.	ICE	JUL -2021	Supervisor	Confirmation Completed
9.	21247697190	Nimmathi K	Ph.D.	Science	JUL - 2021	Supervisor	Confirmation Completed
10.	21247697191	Jayalakshmi N	Ph.D.	Science	JUL - 2021	Supervisor	Confirmation Completed
11.	22244691163	Kalaimani I	Ph.D.	ICE	JAN - 2022	Supervisor	Course Work
12.	23244691170	Kowsalya G	Ph.D.	ICE	JAN - 2023	Supervisor	Course Work

Patent Filed and Published in Patent Journal:

Title of the Patent: Novel Switching Agent for Zigbee Wireless Sensor Networks using LAR
(Application No.:20204007785A Publication Date: 06/03/2020)

Journal Reviewer: Soft Computing

Paper entitled "MULTIVARIATE WEIGHTED ISOTONIC REGRESSIVE MODEST ADAPTIVE BOOSTING BASED RESOURCE-AWARE ROUTING IN WSN"

Expert Member in Anna University Ph.D. Programme Oral Examination Board:

- Ph.D Thesis Title"On Optimizing Resource Block Allocation and Load Balancing for LTE Networks" Submitted by **Kanagasundaram.K** (Proceedings.No.4080063120/Ph.D./AR14) Anna University Chennai. dated **16.10.2015**.
- Ph.D Thesis Title" An Efficient Utilization of Spectrum in Seamless Mobility by using Retransmission Rerouting Mechanism in Mobile IP" Submitted by **Jayanthiladevi.A** (Proceedings.No.71170112027/Ph.D./AR5) Anna University Chennai. dated **20.04.2016**.
- Ph.D Thesis Title"Triple Layered Security through Cross Layer Feedback for Protection Against Byzantine Attacks in Manets" Submitted by **Ms.SivaKami R.** (Proceedings.No.10970622071/Ph.D./AR14) Anna University Chennai.dated **12.07.2016**.
- Ph.D Thesis Title" Multiuser Behavioural Pattern Based Flow Frequency Completeness Model For Mitigating DDoS Attacks in Cloud Environment" Submitted by **Mr.Dhiyanesh.B** (Proceedings.No.131346934/Ph.D./AR6) Anna University Chennai. dated **26.10.2017**.
- Ph.D Thesis Title" Computer Aided Diagnosis for the Common Carotid Artery using Image Mining and Multiscale Analysis System"Submitted by **Mr.AshokKumar.L** (Proceedings.No.100960621001/Ph.D./AR7) Anna University Chennai. dated **26.03.2018**.

Expert Member in other University Ph.D. Programme Oral Examination Board:

- Ph.D Thesis Title "Significance Activity Based Rational Fairness Dominant Resource allocation model for Efficient Scheduling in Cloud" submitted by **Ms.A.Banumarhi** (Ref.Number:29687/Ph.D K10/Dir/Computer Science) Bharathidasan University, dated **18.07.2020**
- Ph.D Thesis Title "An Effective Approach to Implement Cloud Computing Aspects in Health Care Industries" submitted by **Mr.R. Josephius Arunkumar** (Ref.Number:39000/Ph.D K10/Dir/Computer Science Bharathidasan University, dated **30.09.2020**
- Ph.D Thesis Title "Distributed density based key Allocation and Exchange management for security in Wireless Network " submitted by **Mr.N.Venkatesan** (Ref.Number:38901/Ph.D K10/Dir/Computer Science Bharathidasan University, dated **18.11.2019**
- Ph.D Thesis Title "Multi Attribute Feature Selection for Efficient Face Recognition using Facial Features and Sectional Cavity measure " submitted by **Mr.P.Ramaraj** (Ref.Number:21683/Ph.D K10/Dir/Computer Science /2191) Bharathidasan University, dated **07.07.2017**
- Ph.D Thesis Title "An Efficient Categorical Data Clustering Based on Innovative Techniques" submitted by **Mr.K.Nagarajan** (Ref.Number:35997/Ph.D/CE/Computer Science /2242) Bharathidasan University, dated **19.09.2017**
- Ph.D Thesis " Light Weight Multi Attribute Global Addressing Scheme for Improved Mitigation of Network Threats in Mobile Adhoc Networks using Spatial Approximation" submitted by **Mrs.C.Jayanthi** (Ref.Number:29730/Ph.D/CE/CS/2289) Bharathidasan University, dated **22.11.2017**.
- Ph.D Thesis " Light Weight Inter ASN Handover ation Protocol for QoS Development in Wimax Network" submitted by **Mr.T.Sankar** (Ref.Number:11867/Ph.D/CE/CS/2319) Bharathidasan University, dated **14.11.2017**.

Examiner to Evaluate the Ph.D Thesis for other University:

- Ph.D Thesis " An Intelligent Process for handling unexpected situation using Monte-Carlo Sampling Estimation Technique " submitted by **Jagadeesh.K** (Ref.Number:MAHER/COE-011/2022) Meenakshi Academy of Higher Education and Reearch, Deemed to be University U/S 3 OF UGC ACT1956, dated **04.02.2022**
- Ph.D Thesis " Intelligent Content and Shape Oriented image Retrieval using Effieient Density Based Clustering Algorithm" submitted by **Mrs.Prameela Devi Chillakuru**

(Ref.Number:MAHER/COE-096/2020) Meenakshi Academy of Higher Education and Research,
Deemed to be University, dated 26.02.2020

List of Publications:

International / National Journals

1. **K Sakthivel**, A Jayanthiladevi, C Kavitha" Automatic detection of lung cancer nodules by employing intelligent fuzzy c-means and support vector machine" journal of Biomedical Research-India,2016,Vol27,pp S123-S127.
2. R. Suban, **K.Sakthivel**, R. krishnapriya, G. "Efficient Machine Learning Model for Enhancing Privacy Preservation for Covid-19 Data", Design Engineering, Vol.2021,Issue 07,pp,4497- 4512.
3. G.Kowsalya, S.Gopinath, **K.Sakthivel** "Uncertain Finding of Leaf-Diseases from Leaf Image by using Genetic Algorithm" International Journal of Advanced Research Trends in Engineering and Technology(IJARTET)Vol.9, Issue 6, june2022 pp116-125.
4. V.Bharathi, **K.Sakthivel**,"Unmanned mobile robot in unknown obstacle environments for multi switching control tracking using adaptive nonlinear sliding mode control method" Journal of Intelligent& Fuzzy Systems 43(2022) 3513-3525 DOI:10.3233/JIFS-2135588 IOP Press.
5. S. Gopinath, **K. Sakthivel** , S. Lalitha" A plant disease image using convolutional Recurrent neural network procedure intended for big data plant classification" Journal of Intelligent& Fuzzy Systems 43(2022) pp4173-4186 DOI:10.3233 / JIFS-220747 IOP Press.
6. R. Karunia krishnapriya , G. Vinodhini , R. Suban , **K. Sakthivel** "Machine Learning based Encryption Frameworkfor Privacy Preservation in Covid 19 Data" International Journal of Engineering Trends and Technology, Volume 70 Issue 6, 47-53, June2022 ISSN: 2231 – 5381 / <https://doi.org/10.14445/22315381/IJETT-V70I6P206> © 2022 Seventh Sense Research
7. **K. Sakthivel** Jagan Raj J,C. Kavitha" Stego image corruption detection and secret text recovery in steganography communication" Journal of Theoretical and Applied Information Technology,2021,Vol.99,Issue 10,pp. 2256-2266.
8. Jagan Raj Jayapandiyan, C Kavitha, **K Sakthivel**" Multi Image Steganography using Distributed LSB Algorithm and Secret Text Recovery on Stego Image Corruption"journal of CS & IT Conference Proceedings,2020,Vol10,Issue20.
9. Jagan Raj Jayapandiyan, C Kavitha, **K Sakthivel**" Optimal Secret Text Compression Technique for Steganographic Encoding by Dynamic Ranking Algorithm" Journal of Physics: Conference Series,2020,Vol.1427,Issue.01,pp.012005, IOP Publishing.

10. A Jayanthiladevi,R. Mohanasundram ,**K. Sakthivel** , “E-Agricultural Market” IJCTA International Science Press VoL9,pp 641-648.
11. **Sakthivel, K.**, Raghul, B., & Raghul, E. (2022). Traffic sign recognition system using CNNand Keras. International Journal of Health Sciences, 6(S4), 4986–4994.
<https://doi.org/10.53730/ijhs.v6nS4.9226>
12. **K.Sakthivel**, K. Narayanan, N .Aswath, R. Abinaya, “Mining Opinion Targets and Opinion Words from Reviews Based on the Word Alignment Model” International Journal of Engineering Science VoL5662,2017.
13. **K.Sakthivel**, K. Narayanan, N. Aswath, R.Abinaya “Co-extracting Opinion Targets and Opinion Words from Reviews” International Journal of Engineering Science VoL5727, 2017.
14. K.Amudha , S.Balu , **K.Sakthivel** , “Performance Analysis Of Firefly Search Fuzzy C-Means (FSFCM) for Detecting Lung Cancer Nodules international research journal of pharmacy”. vol.(8)pp.88-94,2017.
15. **K.Sakthivel**, S.Balu, K. Nelson Kennedybabu, R.Balamurugan, “Investigation Of Optimal Segmentation Algoriyhm For CT Lung Nodules Using Cad System”, Asian Journal of Information Technology”, ISSN1682-3915 Vol.15(19).Pp3742-3747 Medwell Journals 2016.
16. **K.Sakthivel**, K. Karthika, R Nivetha , S Meganathan ,” Image Retrieval using Clustering Techniques”, Journal of Recent Research in Engineering and Technology, ISSN (Print):2349 –2260 Vol.3(1), 2016, pp21-28.
17. **K.Sakthivel**, B.R Swathi, S. Vishnu priyan, C Yokesh “Analysis of medical image processing and its application in Healthcare”, International journal of advanced Engineering Research and science(IJAERS), ISSN 2349-6495,Vol 3,issue ,Feb2016.
18. **K.Sakthivel**, **G.Keerthana**, “A Survey on Different Feature Selection Method for Cancer Biomarker Discovery”, International Journal of Engineering Research & Technology (IJERT),Vol.01pp.805-808.
19. **K.Sakthivel**, K. Logeshwari, “A Survey: Automatic Diagnosis of Tongue Image for Identifying Various Diseases International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.1 pp. 295-298,2015.
20. **K.Sakthivel**, R. Nallusamy, C Kavitha “ Color Image Segmentation Using SVM Pixel Classification Image”, International journal of computer, information systems, control engineering,vol.8,issue 9,2014
21. **K.Sakthivel**, R Abinaya , I Nivetha “Region based image retrieval using k- means and hierarchical clustering algorithms.” International Journal of Innovative Research in Science, Engi-neering and Technology.;3(1):1255-60,2014
22. **K.Sakthivel**, R. Nallusamy, C. Kavitha, “ Image Retrieval using fused features”, International journal of computer, information systems, control engineering,vol.8,issue 9,2014
23. **K.Sakthivel**,C. Kavitha and A. Krishnan , “Intelligent Image Retrieval Using Modified

- K-means Clustering Algorithm”, International Journal of System Simulation, Vol. 1. No. 2, pp. 95-106, 2007.
- K.Sakthivel**, T.Ravichandran and C.Kavitha , “Performance Analysis in image Retrieval Using IRM and K-means Algorithm”, Journal on Software Engineering, Vol. 3 No. 4, pp. 55-64, 2009.
- K.Sakthivel**,T. Ravichandran and C. Kavitha , “Performance Comparison in Image Retrieval Using Geometric Histogram and K-means Algorithm”, International Journal of Engineering Research and Industrial Applications (IJERIA), Vol. 2, No. 5, pp. 99-113, 2009
- K.Sakthivel**, T.Ravichandran and C. Kavitha , “Image Retrieval Using. K-means Clustering Algorithm”, International Journal of Computer Applications in engineering, Technology and Sciences (IJ-CA-ETS),Vol. 1,No. 2, pp. 501-507, 2009.
- K.Sakthivel** , T.Ravichandran and C. Kavitha , “Performance Enchantment in Image Retrieval Using Modified K-means Clustering Algorithm”, Journal of Mathematics and Technology, pp. 78-85, 2010.
- K.Sakthivel**, Ravichandran T and Kavitha C, “Performance Enhancement in Image Retrieval Using Weighted Dynamic Region Matching”, European Journal of Scientific Research, Vol. 56, No.3, pp. 385-395, 2011.
- K.Sakthivel**, T.Ravichandran and C. Kavitha, “Performance Comparison in Image Retrieval Using Geometric Histogram and K-means Algorithm”, International journal of engineering, research and Industrial applications
- K.Sakthivel**, T.Ravichandran and C.Kavitha, “Image Retrieval Using modified k-means Clustering Algorithm”, International journal of computer applications In engineering, technology and sciences (IJ-CA-ETS).

International Conference

- K.Sakthivel** , S. Gopinath”Design and Implementation of a Deep Convolutional Neural Networks Hardware Accelerator”, International Conference on Emerging Trends in Science, Engineering and Management ,MC Square Scientific Research 21 -23rd January 2021.
- K.Sakthivel** , “Synthetic Aperture Radar Based Retrieval Process Using Content Based image Retrieval”, International Conference on Information and computational Science, K.S.R College of Engineering 27 & 28th March 2018.
- K.Sakthivel**, “Automated Medicine Dispensing Cabinets using Radio Frequency Identification and WIFI” International conference on Latest trends in Science, Engineering and Technology, Karpagam Institute of Technology, Coimbatore-05, March 22&23, 2019.
- K.Sakthivel** , Suresh kumar T and Ravichandran T, “Unsupervised texture based segmentation image”, Emerging trends in Computer and Communication Technology, Maria college of Engineering & Technology, 16 & 17th February 2012..
- K.Sakthivel** , Suresh kumar T and Ravichandran T, “Color image segmentation using support vector machine classification”, In proceedings of the International conference on

- Computer Communication and Signal Processing, SSM College of Engineering, Tamil Nadu, India, pp. 100-101, September 2011
6. **K.Sakthivel**, T.Ravichandran, and S. Geetha, "Optimal Solution for Image Retrieval Using Feedback-Based Integrated Region Matching", In Proceedings of the International Conference Computer Communication and Informatics, Sri Shakthi Institute of Engineering and Technology, Tamil Nadu, India, pp. 257-262, January 2011.
 7. **K.Sakthivel**, T. Ravichandran and K.R Sangeetha, "Photographic Image Retrieval Using Modified K-means Algorithm" Proceedings of Fifth International Conference on Intelligent System and Control, Karpagam college of engineering, India & Louisiana State University, USA, pp. 72, January 2011.
 8. **K.Sakthivel**, C.Kavitha and Krishnan A, "Search and Retrieval of Image Database Using Hierarchical Clustering Algorithm", International Conference on Intelligent Systems, Kuala Lumpur, Malaysia, pp. 1-5, December 2005.
 9. **K.Sakthivel**, C. Kavitha and A. Krishnan "Analyzing the Efficiency of Similarity based Image Retrieval Using Region matching", Proceedings of the International Conference on Human Machine Interfaces, Bangalore, India, pp. 330-397, December 2004.

National Conference

1. **K.Sakthivel**. Proceeding of the National conference on Analyzing the performance of Image Retrieval using hierarchical clustering algorithm organized by Sasurie college of engineering, vijayamangalam dated 24.2.2009.
2. **K.Sakthivel**. Proceeding of the National Conference on An image retrieval performance comparison using k-means and object clustering algorithm organized by vellalar college of engineering and technology dated 9.4.2009
3. **K.Sakthivel**. Proceeding of the National Conference on "Content Based Image Retrieval using Statistical shape features" organized by SNS College of Technology, coimbatore, dated 6.10.2009.
4. **K.Sakthivel**. "Image restoration Using Scape Variant Gaussian Scale mixture in over complete Pyramids" Proceeding of the National Conference on Recent Trends in Advanced Computing" organized by SNS College of Technology, coimbatore, on 6-09-2008.
5. **K.Sakthivel**. "Secured Communication For JPEG image using Stenographic Techniques" Proceeding of the National conference on NCICT-06 at Mahendra engineering College, mallasamudram on 3-April-2006.
6. **K.Sakthivel**. "Efficient Search and Retrieval of Image Database" Proceeding of the National conference on Emerging Technologies and Applications ETA-2005 at Saurashtra University Rajkot on 1-2 October 2005.
7. **K.Sakthivel**. "Search and Retrieval of Multimedia Database" Proceeding of the National conference on Recent Trends in Advanced Computing(NCRTAC'05) at SNS college of Technology, Coimbatore on 6 – Oct-2005..

List of Workshops / Seminar / STTP/FDPs Attended:

S.No.	Title	Venue	Duration	Organizing / Sponsoring Authority
1.	Faculty Development Training Programme on CS3491-Artificial Intelligence and Machine Learning (from 06-03-23 to 11-03-23)	Online Dept.of CSE K.S.R College of Engineering	1 Week	Centre for Faculty Development Anna University
2.	ATAL Academy Blended/Hybrid FDP on Electric Vehicles from (12-12-2022 -17-12-22 to 19-12-22-23-12-22)	Vivekanandha College of Engineering for Eomen	2week	AICTE
3.	Faculty Development Programme on "Intellectual Property Rights, Research Innovations and Entrepreneurship Development" (from 12-12-22 to 16-12-22)	Online Dept.IT M.Kumarasamy College of Engineering	1 Week	ICT
4.	Faculty Development Training Programme on GE 3151-Problem Solving & Python Programming(from 25-07-22 to 30-07-22)	Online Dept.IT KSRCT	1 Week	Centre for Faculty Development Anna University
5.	FDP on Recent Advancements in Deep Learning (From 7-02-22 to 12-2-22)	Online Anurag Engineering College,Telangana	1 Week	AICTE& ISTE
6.	FDP on Inculcating Universal Human Values in Technical Education(From 14-6-21 to 18-6-21)	Online	5 Days	AICTE
7.	AICTE STTP on Artificial intelligence and Deep learning using Python for Industrial Applications	K.S.R College of Engineering	6 Days	AICTE
8.	Seminar on National Cyber Safety and Security Standards Summit'22(XVI Edition) From26-08-22 to 27-08-22	Kongunadu Arts and Science College	2Days	NCDRC

9.	AICTE sponsored one week STTP on "Big-data Analytics and Cyber Security in Smart Grid Monitoring and Control"	Knowledge Institute of Technology	1Week	AICTE
10.	AICTE FDP on Design and Development of software Defined Networks	Sona College of Technology	2 Week	AICTE
11.	NITTTR STTP through ICT Mode on NBA Accreditation	ICT Mode	1Week	NITTTR
12.	AICTE STTP on Wireless Sensor Networks Application towards Secured Automation With IoT	Nandha Engineering College	1 Week	AICTE
13.	AICTE FDP on Success Mantra to Promote Higher Education in Digital Era: Teach to Learn and Learn to Teach	K.S.R School of Management K.S.Rangasamy College of Technology	2Week	AICTE
14.	AICTE FDP on Challenges and Opportunities in Execution of Big Data Analytics for Smart Electrical Power Distribution System Design: A Research Perspective	Centre for Hybrid Energy System K.S.Rangasamy College of Technology	2 Week	AICTE
15.	Centre for Faculty Development Anna University-Chennai Faculty Development Training Programme on Design and Analysis of Algorithm (08-12-14 to 14-12-14)	K.S.R College of Engineering	1 Week	ANNA UNIVERSITY-CHENNAI
16.	Centre for Faculty Development Anna University-Chennai Faculty Development Training Programme on Theory of Computation (06-06-15 to 12-06-15)	K.S.R Engineering College	1Week	ANNA UNIVERSITY-CHENNAI
17.	Centre for Faculty Development Anna University-Coimbatore Faculty Development Training Programme on Middleware Technology	Sona College of Technology	1Week	ANNA UNIVERSITY-COIMBATORE
18.	AICTE FDP on Economic Development through Digital Transformation (11-09-17 to 24-09-17)	K.S.R School of Management K.S.Rangasamy College of Technology	2 Week	AICTE

19.	AICTE Sponsored National Seminar on Genetic Algorithms- Vision And Applications	Nandha Engineering College	2 Days	AICTE
20.	AICTE Sponsored Seminar on High Performance Computing	Kongu Engineering College	2 Days	AICTE
21.	Two week ISTE WORKSHOP on Computer Programming	IIT Bombay	2Week	NMEICT
22.	Two-Week ISTE Short Term Training Programme (STTP) on "Pedagogy for Effective use of ICT in Engineering Education" (05-01-15 to 31-01-15)	IIT Bombay (RC 1313 - KSRCT)	2 Weeks	NMEICT
23.	Two-Week ISTE WORKSHOP on Database Management Systems	IIT Bombay	2 Week	NMEICT
24.	Two-Week ISTE Coordinators' Workshop on Computer Programming	Dept.of Computer Science and Engineering IIT Bombay	2Week	NMEICT
25.	Two-Week ISTE WORKSHOP on Introduction to Design of Algorithms (27-04-15 to 24-05-15) Online (25-05-15 to 30-05-15)Physical	K.S.R Engineering College	2 Week	NMEICT IIT Kharagpur
26.	Two-Week ISTE STTP on Technical Communication	IIT Bombay (RC 1313 - KSRCT)	2 Week	NMEICT
27.	ICMR Workshop on Emerging Trends in Interfacing of Medical Equipment and EMR using Cloud Technology (15-02-17 to 16-02-17)	KSR Institute of Engineering and Technology	2Days	ICMR
28.	Workshop on Soft Computing Techniques in Information Retrieval	Dr.Mahalingam College of Engineering and Technology	2Days	ISTE Staff Chapter(TN-115)
29.	DIP Sponsored National Seminar on Domain Driven Data Mining	Sona College of Technology	2Days	DIT
30.	National Level Seminar on Contribution of Mathematical Models in Biomedical Imaging	Velalar College of Engineering and Technology	1Day	CSIR
31.	National Level Workshop on Recent Development in Modeling of Biomedical Instrumentation	Velalar College of Engineering and Technology	2Days	CSIR

	Design using Molecular Dynamics and Monte Carlo Techniques			
32.	Wipro MISSION 10X Workshop	K.S.Rangasamy College of Technology	5Days	ISTE
33.	Workshop on Advances and Recent Trends in Image Mining	Dept.of Computer Science and Engineering Anna University of Technology- Tiruchirappali	2Days	-
34.	National workshop on Research techniques in Data Mining and Warehousing	Dept.of Computer Science and Engineering SNS College of Technology	2Days	-
35.	Workshop on Recent Trends in Network security and Management	Vellore Institute of Technology(VIT)	2Days	-
36.	Workshop on Research in Speech and Image Processing	Dept. of Computer Science and Engineering Annamalai University	2Days	-
37.	FDP on Computer Vision, Video and Image Processing	PSG College of Technology- Coimbatore	1Week	TEQIP-II
38.	ATAL Academy FDP on Internet of Things(IoT)(16-09-19 to 20-09-19)	National Institute of Technology Puducherry, Karaikal.	5Days	AICTE
39.	ATAL Academy Online Elementary FDP On "Kotlin: The Next Frontier In Meta Programming	Velalar College of Engineering and Technology	5Days	AICTE
40.	Introduction to Internet of Things (Jul-Oct 2019)	K.S.Rangasamy College of Technology	12 Week	NPTEL
41.	NPTEL-AICTE Faculty Development Programme on Introduction to Internet of Things (Jul-Oct 2019)	K.S.Rangasamy College of Technology	12 Week	NPTEL-AICTE
42.	Cloud Computing (Feb-Apr2020) (Covid-19 impacted Jan 2020 Sem)	K.S.Rangasamy College of Technology	4Week	NPTEL
43.	Software Testing (Jan-Feb 2020)	K.S.Rangasamy College of Technology	4Week	NPTEL

	(Covid-19 impacted Jan 2020 Sem)			
44.	Software Testing (Jan-Feb 2022)	K.S.Rangasamy College of Technology	4Week	NPTEL
45.	NPTEL-AICTE FDP Successfully Completing the Course Software Testing(Jan-Feb2022)	K.S.Rangasamy College of Technology	4 Week	NPTEL
46.	Refresher Programme on Recent Advancement in Deep Learning	Anurag Engineering College,Telangana	1Week	AICTE-ISTE
47.	Webniar on “Data & Analytics - Opportunities”	CMS College of Engineering	1 day	-

Details of Membership in Professional Societies:

S. No.	Name of Professional Body	Grade of Membership	Membership No.
1.	ISTE	Life Member	LM 54054
2.	IAENG	Life Member	318030

Research Article Citations:

- **Google Scholar ID:** V9yxDeMAAAAJ
Citations: 99, h-index: 4, i10-index:3
Google Scholar link: https://scholar.google.com/citations?user=jEx9Z_4AAAAJ&hl=en&oi=sra
- **Scopus Auther Profile Link:** <https://www.scopus.com/authid/detail.uri?authorId=15027512900>
Author ID: **15027512900**
- **ORCID ID:** 0000-0002-7599-6258
- **Researcher ID:** 4203760
- **Microsoft Academic Search ID:**2426822826

Awards and Achievements:

- Received Elite with Sliver Award in NPTEL Course “Internet of Things(IoT)”
- Achieved 100% result in End Semester Examination for the subjects handled in past three years

Major Contributions in Institutional / Departmental Administration:

Institution Level:

- Academic Council Member in the year 2023
- Annual day & Graduation day prizes, Certificate Preparation and Distribution activities.
- Anti-Ragging coordinator
- Displine committee coordinator
- Enquiry Committee Member

Department Level:**Exam Coordinator**

- Serving as a Department Exam Coordinator takes care of the End Semester Practical Scheduling, Duty Preparation, Seating Arrangements, Monitoring and CA Test conduction.

Course Coordinator

- Developed Syllabus for Artificial Intelligence, Principles of Compiler Design, Machine Learning Techniques, and Operating Systems.

Module Coordinator

- Acted as a Module Coordinator for System Program Module.

Board of Studies

- Serving as a Board of Studies Subject Expert Member in CSE Courses

NBA / NAAC Coordinator

- NBA Programme Coordinator of Computer Science and Engineering Department.
- Disseminated details of NBA / NAAC process to the Students and department faculty
- Organized and Maintained Data related to NBA / NAAC
- Presentation and clarification to the NBA Committee

Resource Person/Guest lecturer delivered:

- Lecture delivered in ATAL FDP on “Quantum Computing Topic: Noise and Error Correction: Graph States and Codes, Quantum Error Correction” at K.S Rangasamy College of Technology, Tiruchengode on 08.01.2021
- Lecture delivered in AICTE Sponsored FDP on “digital Manufacturing: Integrated Technology from Design to Manufacturing Topic: Artificial Intelligence” at K.S.Rangasamy College of Technology, Tiruchengode on 12.09.2019
- Lecture delivered in DRDO Sponsored Two Days National Seminar on “Embedded Wireless sensor Networks Topic: Introduction to Wireless Sensor Network” at K.S.R College of Engineering on 30.03.2012
- Lecture delivered in AICTE Sponsored Staff development Programme on “ Digital Image Processing using Wavelets Topic: Image Retrieval” Organized by Department of Electronics and Communication Engineering at K.S.R College of Engineering on 04.08.2009
- Lecture delivered in AICTE Sponsored National Seminar on “ Green Computing Topic: Measures for Greener Computing” at Nandha College of Technology on 18.05.2013

Certificate Course Completion:

K.Sakthivel has Completed Cisco Networking Academy Introduction to Cyber Security Course at Sona College of Technology, Salem on 04/12/2021.

Courses Handled:

1. Operating Systems with Lab
2. System Software
3. Fundamentals of Programming
4. Software Engineering
5. Database Management Systems
6. Artificial Intelligence
7. Programming for Problem Solving
8. Principles of Compiler Design
9. Computer Architecture
10. Total Quality Management
11. Machine Learning Techniques
12. Information Storage Management
13. Cluster and Grid Computing
14. Warehousing and Data Mining
15. Object Oriented Software Engineering
16. Software Testing
17. Database Management Systems
18. Formal Language and Automata Theory

Dr.K.Sakthivel.