BIO DATA

Personal Details

Name : **SARASWATHY C**

Designation : Associate Professor

Date of Joining : 23.05.2005

Nature of Association : Regular
Email : saraswathy@ksrct.ac.in

AcademicProfile

S. No	Qualification	Institution	Board / University	Full Time/ Part Time	Percentage / CGPA	Year of passing	Class Obtained
1.	Ph.D	Anna University, Chennai	Anna University, Chennai	Part Time	-	Pursuing	-
2.	M.E (Applied Electronics)	Government College of Technology, Coimbatore	Anna	Full time	67.81%	June 2005	First class with distinction
3.	B.E (Electronics and Communication Engineering)	K.S.Rangasamy College of Technology, Tiruchengode.	Madras	Full time	66%	April 2001	First class

4.	HSC	J.K.K.R.Girls Higher Secondary School, Komarapalaya m	State	Full time	71.25%	May 1997	First class
5.	SSLC	J.K.K.R.Girls Higher Secondary School, Komarapalaya m	State	Full time	79.4%	May 1995	First class with distinction

Employment details with Experience:

S.No.	ORGANIZATION	DESIGNATION	PERIOD		YEAR OF EXPERIENCE
			FROM	**TO**	
1.	K.S.Rangasamy College of Technology, Tiruchengode.	Associate Profeesor	01.06.2018	Till date	3.3
2.		Assistant Professor	01.06.2008	31.05.2018	10
3.		Lecturer	23.05.2005	31.05.2008	03
				Total	18.3

List of Publications

INTERNATIONAL JOURNALS
1.   **Ms.C.Saraswathy,** Dr.S.Sarumathi, Mr.D.Poornakumar, Dr.S.Malarkhod," A Survey on Drowsiness Detection System using Infrared Sensor", International Advanced Research Journal in Science, Engineering and Technology, Volume 10 Issue 5, 2023 ISSN (O) 2393-8021, ISSN (P) 2394-1588.

2.	**Ms. C. Saraswathy**, Dr. S. Sarumathi, Ms. Sharmila Mathivanan, Mr. D. Poornakumar", Diabetic Retinopathy Detection and Multi Stage Classification using Deep Learning Models: A Quick Review", International Journal of Advanced Research in Computer and Communication Engineering, Volume 12 Issue 6, 2023 ISSN (O) 2278-1021, ISSN (P) 2319-5940.
3.	**Saraswathy C** and Vijayakarthikeyan V, "Object Detection Using Event Based Clustering Technique", NeuroQuantology, Volume 20 Issue 8, 2022 (ISSN: 6770-6780) .
4.	**Saraswathy C**, Ramya G, Sabarika S and Surya Prakash K,"Driver Drowsiness Detection Using Convolutional Neural Network", Dogo Rangsang Research Journal, Volume 9 Issue 1, 2022 (ISSN: 347-7180) UGC care.
5.	**Saraswathy C**, Nandhini K and Kalaivani R, "Traffic sign detection and recognition based on convolutional neural network"International Journal of Health Sciences, Volume 6 Issue 8, 2022 (ISSN: 2550-6978) .
6.	Dr. S.Sarumathi, P.Ranjetha, **Ms. C.Saraswathy** and Ms.S.Gayathri, " Deep Neural Network Algorithms and Their Role: A Systematic Review", International Research Journal of Computer Science (IRJCS), Issue 02, Volume 09 (February 2022). (https://doi.org/10.26562/irjcs).
7.	**Saraswathy C**, Sarumathi S and Ranjetha P, 'A Comprehensive Survey of Grape Leaf Disease Detection and Classification using Machine Learning based Models', International Research Journal of Computer Science (IRJCS), Issue 07, Vol. 08, pp.183, 2021. (https://doi.org/10.26562/irjcs.2021.v0808.005.
8.	**Saraswathy C** and Sarumathi S, 'Analysis of Thief Identification Techniques using Artificial Intelligence', Journal of Image Processing and Artificial Intelligence, Vol. 7, Issue-2, pp. 37-41, 2021. (https://doi.org/10.46610/JOIPAI.2021.v07i02.005).
9.	S Sarumathi, P Ranjetha, C Saraswathy, M Vaishnavi, S Geetha,"A Review and Comparative Analysis on Cluster Ensemble Methods", International Journal of Computer and Information Engineering, Volume 15 Issue 6, May 2021.
10.	**Saraswathy C**, Ishwarya S, Kavin M, Karthikeyan S," Identification of theif using Arificial Intellogence basec on face and action recognition" International Research Journal of Modernization in Engineering Technology and Science, Volume:03 Issue:04 April-2021(e-ISSN: 2582-5208).
11.	P.Seetha Lakshmi, P.Selvapriya , J.Vinith Franklin, S.Vishnupriya, , **C.Saraswathy** "A Novel Approach for Oil Spill Detection in SAR Imagery" International Journal for Trends in Engineering & Technology Volume 27 Issue 1–March 2018 (ISSN: 2349 – 9303).
12.	R.Kalaivani, S.Luthubullah, S.Mahendran, T.Malarkodi, **C.Saraswathy**, "Bus Announcement System for Amaurotic" International Journal of Innovative Research in Computer and Communication Engineering March 2017.

13.	P. Karthika, **C.Saraswathy**, "Super Resolution and Non-Gaussian Noise Reduction of High Frame Rate Videos " Journal of Emerging Technologies in Image Processing and Networking, Volume 10 Issue 2 February 2015.
14.	P. Karthika, **C. Saraswathy**, "Non-Gaussian Noise Reduction and Object Tracking of High Frame Rate Videos" International Journal of Inventions in Computer Science and Engineering Volume 2 Issue 4 April 2015 (ISSN: 2348-3539).
15.	R.Ramya, **Saraswathy C**, Y.Vivekananth "Motion Estimation Based on Noise Reduction in Color Video Using LMMSE and Antisotropic Diffusion Filtering". International Journal of Electrical and Electronics Engineering Research (IJEEER) ISSN(P): 2250- 155X; ISSN(E): 2278-943X Vol. 5, Issue 1, Feb 2015, 87-94 TJPRC Pvt. Ltd.
16.	V.Suresh, **C.Saraswahty** "Separable Reversible Data Hiding Using Compression in Encrypted Image" International Journal of Advanced in Electronics and Communication Engineering (IJARECE) volume 2, issues 5, May 2013 (ISSN: 2278-909X).
17.	G.Nandhini, **C.Saraswathy** "SAR Image Despeckling Using Wavelet And Curvelet Transform" International Journal of P2P Network Trends and Technology, volume3 issue-4 May 2013. (ISSN: 2249-2615).
18.	M.Saranya, **C.Saraswathy**, "Speckle reduction in ultra sound image" International Journal of Electronics and Computer Science Engineering, Volume 1, pg. no. 343-347, 2012 (ISDN: 2277-1956).

National & International Conference
1. Nandhini S, Sowbarnikkaa S, Mageshwari J, **Saraswathy C**,""An Automated Detection and Multi-stage classification of Diabetic Retinopathy using Convolutional Neural Networks", 2nd IEEE international conference on Vision Towards Emerging Trends in Communication Networking Technologies (ViTECoN'23) May 5-6, 2023.
2. Gowtham B, Nagajothi V, Karthi G, **Saraswathy C**", "Real Time Alert System For Slumberous And Fatigue Driver Using Eye Blink Sensor",2nd IEEE international conference on Vision Towards Emerging Trends in Communication Networking Technologies (ViTECoN'23) May 5-6, 2023.
3. **Saraswathy C**, Keerthana R, Kowshika D K, Naveen Kumar K and Ragavendra V, "Smart Home Automation Based on Brain Controlled Computer Interface", Proceedings of the International Conference on Science, Technology, Engineering and Management, March 2020.
4. A.Dheenulhuk, M.Dharanipriya, R.Hemalatha, K.Gowrishankaran, **C.Saraswathy,** "Assessment of Skeletal Maturity in Radiographic Images Using Convolutional Neural Network" 7th National Conference on Networking and Communication Systems, 15th March 2019.

5.	P.Seetha Lakshmi, P.Selvapriya , J.Vinith Franklin, S.Vishnupriya, , **C.Saraswathy** "A Novel Approach for Oil Spill Detection in SAR Imagery" 2nd International Conference on Advances in Informatics and Communication Tachnologies, March 2018.
6.	A.Swetha, V.Vigneshwaran, R.Vimalarasi, S.Sabarirajan, **C.Saraswathy,** "Diagnosis of Diseases using Heartbeat Sound" 3rd International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD), March 2017.
7.	N.Anupriya, **C. Saraswathy**, "Reduction of Random and Fixed Pattern noise through Adaptive Regularization of Nonlocal filtering(R-NL)in Video" International Conference on Engineering Innovations and Solutions(ICEIS-2016) April 2016.
8.	E.Deepika, R.Dharmaseelan, V.Indumathi, P.Jayaprakash, **C.Saraswathy**, "Real Time Monitoring of Agricultual Field and Disease Detection in Plants Using Zigbee Technology" National Level Conference on Industrial Automation & Safty(NLC-IAS' 31th March, 2015
9.	C.Karthick, **C.Saraswathy**, "SAR Image Segmentation Based on Hierarchical Merging Method" 2014 IEEE International Conference on Innovations in Engineering and Technology(ICIET'14) 21th and 22 nd March, 2014.
10.	B. Indhu, **C.Saraswathy** "Colour Video Denoising Based on Interframe and Intercolor Correlation with LMMSE Filtering" International Conference on Electronics and Communication Systems (ICECS' 14) February 13-14 (2014).
11.	G.Nandhini, **C.Saraswathy,** "SAR image despeckling based on wavelet and curvelet transform" International Conference on Innovations in Intelligent Instrumentation, Optimization and Signal Processing (2013).
12.	V.Suresh**, C.Saraswahty** "Separable reversible data hiding Rc4 algorithm" proceeding of the International conference on pattern recognition, informatics and mobile engineering (PRIME) February 21-22 (2013).
13.	M.Saranya, **C.Saraswathy**, "Speckle reduction in ultra sound image" International Conference on Emerging Trends in Computer and Communication Technology, February 2012.
14.	M. Balasubramanian, **C. Saraswathy**, "A low error area efficient fixed width multiplexer-based array multiplier", Sixth National Conference on Optimization Techniques in Engineering Science and Technology, April 2011.
15.	**C.Saraswathy,** C.Anandaraj, "Image denoising based on bilateral filter with wavelet thresholding", National Conference on Recent advancements in Engineering and Technology, April 9, 2010.

16.	**C. Saraswathy,** R.S.Kamalakannan, "Improved CMOS dynamic logic performance with low power for 4-bit multiplier" Third National Conference on Emerging Trends in Communication and Information Technology, April 2009.
17.	**C. Saraswathy**, S.P. Kesavan, "An analysis of open source floating point divider on FPGA for SOCS" National Conference on Emerging Technology, February 2008.

List of Workshops / Seminar / STTP/FDPs Organized

S.No	Title	Duration	Sponsoring Authority
1.	Signals and Systems	02.01.2014 - 12.01.2014	-
2.	Engineering Challenges for Smart & Digital India: Internet of Things (IoT) and Application	20.11.2017- 01.12.2017	AICTE

List of Workshops / Seminar / STTB/FDPs Attended

S.No.	Title	Venue	Duration	Sponsoring Authority
1.	AI & Deep learning Approach for Image Processing and its Applications	Paavai Engineering College	19.06.2023 to 24.06.2023	IETE and Enthu Technology Solutions Pvt Ltd.,
2.	Design of iot based systems for contemporary applications and their empowerment using data analytics	VIT, Chennai	23.06.2023 to 25.06.2023	SENES
3.	Multi-attribute Fuzzy Time Series based on Adaptive Expectation	VIT, Chennai	11.06.23 to 15.06.23	SENES

S.No.	Title	Venue	Duration	Sponsoring Authority
4.	Emotional Intelligence	The Kavery College of Engineering	02.05.2023 - 04.05.2023	ICT Academy
5.	Innovation in Mentoring Pedagogy and incorporation of ICT techniques in education	Paavai Engineering College	30.01.2023 - 04.02.2023	IETE
6.	Inculcating Universal Human values in Technical Education	K.S.Rangasamy College of Technology	11.07.2022 - 15.07.2022	AICTE
7.	Recent Advancements and Applications of Data science	Paavai Engineering College	27.06.2022 - 02.07.2022	-
8.	Artificial intelligence in contemporary biomedical & healthcare applications: fundamentals & hands on MATLAB	Gautam Buddha University, Greater Noida, U.P	21.02.2022 - 25.02.2022	ATAL
9.	Intelligent decision support system using machine learning techniques	Kumaraguru college of Technology, Coimbatore	02.02.2022 - 08.02.2022	AICTE-ISTE
10.	Machine learning in medical image processing	Katihar Engineering College, Katihar	05.09.2021 - 09.09.2021	ATAL
11.	Data Sciences	ATAL Academy	20.10.2020 - 24.10.2020	-

S.No.	Title	Venue	Duration	Sponsoring Authority
12.	Cyber Security	ATAL Academy	7.09.2020 - 11.09.2020	-
13.	Data Science for Social Good	Prasad V.Potluri Siddhartha Institue of Technology	24.08.2020 - 29.08.2020	-
14.	Data Analytics using R	Vidyavardhaka College of Engineering	10.8.2020 - 14.8.2020	-
15.	Learning by performing through virtual lab	Institute of Engineering and Technology	01.07.2020 - 05.07.2020	-
16.	Machine Learning & Its Applications Using Python	Ajay kumar Garg Engineering College, Kanpur	29.06.2020 03.07.2020	-
17.	Let's play Machine Learning with Tensor Flow 2.x	Kalasalingam Academic of Research and Education	25.06.2020 - 01.07.2020	-
18.	Digital System & Programmable Logic Control (PLC)	NITTR, Kolkata	22.06.2020 - 26.06.2020	-
19.	Antenna Applications and Microwave Design	Sri ram Institute oF techonolgy, Chennai	15.06.2020 - 20.06.2020	--
20.	Cyber Security techniques and Tools	Sri Sai Ram Institute of technology,	15.06.2020 - 19.06.2020	ISTE

S.No.	Title	Venue	Duration	Sponsoring Authority
21.	MATLAB based Teaching-Learning in Mathematics,Science & Engineering	Ramrao Adik Institute of Technology	18.05.2020 - 22.05.2020	DesignTech Systems Pvt. Ltd.,
22.	Python	VIT, Vellore	18.05.2020 - 22.05.2020	IIT, Bombay
23.	Inevitable Ingenious Technologies	Sri Venkateshwaraa College of Engineering & Technology, Puducherry.	18.05.2020 - 22.05.2020	-
24.	Introduction to Data Science	Guntur Engineering College, Kakinada	18.5.2020- 22.5.2020	
25.	Computer and Communication Networks	Sri Sai Ram Institute of technology, Chennai	18.05.2020 - 22.05.2020	-
26.	EC 6602-Antenna and Wave Propagation	K.S.R.Institute for Engineering and Technology	27.11.2017 - 03.12.2017	
27.	Engineering Challenges for Smart & Digital India: Internet of Things (IoT) and Application	K.S.Rangasamy College of Technology	20.11.2017 - 01.12.2017	
28.	Antenna and Wave Propagation	K.S.R.Institute for Engineering and Technology	27.11.2017 - 03.12.2017	

29.	Internet of Things(IOT) and Applications	K.S.Rangasamy College of Technology	20.11.2017 01.12.2017	AICTE
30.	Antenna Design and Simulation Using ANSYS HFSS	K.S.Rangasamy College of Technology	06.03.2017	
31.	CMOS, Mixed Signal and Radio frequency VLSI Design	IIT Kharagpur	30.01.2017 - 04.02.2017	
32.	Use of ICT in Education for online and Blended Learning	IIT Bombay	02.05.2016 - 10.07.2016	AICTE
33.	Antenna Design and analysis using CEM simulation tools	K.S.R.Institute for Engineering and Technology	18.03.2016	
34.	Control systems	K.S.Rangasamy College of Technology	02.12.2014 - 12.12.2014	
35.	Signals and Systems	K.S.Rangasamy College of Technology	02.01.2014 - 12.01.2014	
36.	Signals and Systems	Vivekanandha College of Engineering for Women	10.06.2013 to 08.06.2013	

S.No.	Title	Venue	Duration	Sponsoring Authority
37.	Xilinx FPGA Based Signal Processing Applications& Wind River Vx Works	K.S.Rangasamy College of Technology	17.03.2011 - 19.03.2011	
38.	DSP & Its Applications	S.D.M.Institute of Technology	26.07.2010 - 28.07.2010	
39.	Advance in Wireless Communication	K.S.Rangasamy College of Technology	05.03.2013	
40.	Pattern Recognition for Medical Imaging	K.S.Rangasamy College of Technology	25.03.2010 - 25.03.2010	
41.	Digital Image Processing	Kavery Engineering College	27.02.2009 - 28.02.2009	AICTE
42.	Graphical System Design in Engineering Education	K.S.Rangasamy College of Technology	26.02.2009	
43.	Tanner Tools Pro	K.S.Rangasamy College of Technology	09.08.2008	

44.	Industrial Automation On Neuro Fuzzy and It's Applications	Kavery Engineering College	28.05.2008 - 29.05.2008	AICTE
45.	Circuit Simulation Using Multisim Software	K.S.Rangasamy College of Technology	08.12.2007	
46	Integrated Circuits & Micro Controllers	K.S.Rangasamy College of Technology	08.12.2005 - 09.12.2005	

Details of Membership in Professional Societies

S. No.	Name of Professional Body	Grade of Membership	Membership No.
2.	IETE	Life member	AM-217723

C.SARASWATHY