Name: C.N.SAVITHRI		
Designation:	Associate Professor	
Qualification:	M.E., (Ph.D)	
Area of specialization:	Communication Systems	

Experience : (As On November 2022)	**Industrial Experience**	**Teaching Experience**
	-	18 years

Number of workshop / FDP attended:	**Number of Workshops**	**Number of FDPs**
	16	24

Publications:	**Conference**		**Journal**	
	National	**International**	**National**	**International**
	5	13		5

Professional Body Membership:	Life member in ISTE – LM 49736 Life Member in IETE Annual member, Signal Processing Society (SPS) & IEEE - 98060061

Staff Achievements				
Workshop Details	**Sl. No.**	**Title**	**Venue**	**Month / Year**
	1.	Multivariate Analysis through R-Commander	ISAR	27.08.21 & 28.08.21
	2.	Tinker your ideas to the next level	Sri Sairam Engineering College - Online mode	22.05.21
	3.	ORANGE Data Mining Tool	Sri Sairam Engineering College - Online mode	15.05.21
	4.	Rapid Prototyping IoT and Embedded System Design	Dept. of ECE, Sri Sai Ram Engineering College, Chennai	12.11.18 to 14.11.18
	5.	IEEE sponsored 3rd workshop on Emerging Trends and Future Perspective in Image Processing and Computer Vision	Dept. of ECE, Sri Sai Ram Engineering College, Chennai	03.01.2018 to 05.01.2018

	6.	Scope for R&D projects and proposal preparation	Centre for Technology Development and Transfer, Anna University, Chennai	12.05.17
	7.	IEEE sponsored 2nd workshop on "Emerging Trends and Future Perspective in Image Processing and Computer Vision"	Dept. of ECE, Sri Sai Ram Engineering College, Chennai	04.01.2017 to 06.01.2017
	8.	Advancements in Biomedical Signal and Image Processing	Madras Institute of Technology, Chennai	29.10.2015 & 30.10.2015
	9.	Network Security - Research Issues and Challenges	IETE Sivakasi Sub Centre	17.05.10 & 18.05.10
	10.	Programmable System on Chip	IE Students Chapter, Dept. of ECE	05.04.10
	11.	Research Issues in Digital Image Processing	Dept of MCA, Mepco Schlenk Engineering College, Sivakasi	20/03/10
	12.	Soft Computing Techniques	Dept. of CSE, Mepco Schlenk Engg. College, Sivakasi	11.02.10 & 12.02.10
	13.	Recent Trends & Research Issues in Communication Technologies	IETE Sivakasi Sub Centre	14.05.09 & 15.05.09
	14.	Soft Computing Approaches for Image Processing Applications	Department of ECE, Mepco Schlenk Engineering College, Sivakasi	06.02.09 & 07.02.09
	15.	Multimedia Signal Processing	Department of ECE, Mepco Schlenk Engineering College, Sivakasi	22.08.08 & 23.08.08
	16.	Networks Laboratory	BENCHMARK Electronic System Pvt. Ltd., Chennai & Department of ECE, Mepco Schlenk Engineering College, Sivakasi	30.08.06
FDP Details:	**Sl. No.**	**Title**	**Venue**	**Month/ Year**
	1.	UHV-II	Sri Sairam Engineering College	26.07.22 to 30.07.22
	2.	Deep Learning and its applications	Sri Sairam Engineering College	11.07.22 to 15.07.22
	3.	Recent Trends in Bio - Signal Acquisition and Research Perspectives in Signal Analysis	NSS College of Engineering, Palakkad	25.03.22 & 26.03.22
	4.	Artificial Intelligence in Healthcare	Sri Sairam Engineering College	21.02.22 to 25.02.22

5.	Remote Access to Intel FPGAs & SoCs for Embedded System Design	SASTRA Deemed to be University, in association with Intel Technologies Ltd., Bengaluru	11.11.21 to 13.11.21
6.	Research Confront and Document Preparation Using Latex	National Institute of Technology Kurukshetra.	02.08.21 to 06.08.21
7.	Inculcating Universal Human Values in Technical Education	All India Council for Technical Education (AICTE)	12.07.21 to 16.07.21
8.	DSP Builder, AI, FPGA Accelerator using Intel FPGA. (Online mode)	School of Electronics Engineering (SENSE) & Centre for Nanoelectronics and VLSI Design at VIT - Chennai	25.06.21 &26.06.21
9.	CS 8082 - Machine Learning Techniques	Sri Sairam Engineering College-ECE(online mode)	07.06.21 to 12.06.21
10.	Teaching, Learning and Research Pedagogy for Excellence in Education.(Online mode)	Sri Sairam Engineering College	31.05.21 to 14.06.21
11.	Fundamentals of Finite Element Analysis and its Applications in Engineering (Phase – I)	Panimalar Institute of Technology, Chennai STTP	18.01.21 to 23.01.21
12.	Computer Science & Biology (Online mode)	Lakshmi Narain College of Technology (ATAL)	15.12.20 to 19.12.20
13.	Artificial Intelligence	Sri Sairam Engineering College. (ATAL)	07.12.20 to 11.12.20
14.	Electrical & Computer Engineering (Online mode)	Indian Institute of Information Technology Kottayam (ATAL)	04.11.20 to 08.11.20
15.	Artificial Intelligence (Online mode)	KIIT Deemed to be University (ATAL)	15.10.20 to 19.10.20
16.	Recent trends in Information, Computing, Communication and Teaching Methodology competency.(Online mode)	Sri Sairam Engineering College	04.05.20 to 17.05.20
17.	Advanced Simulation Tools for Electronics Engineers.(Online mode)	S A Engineering College	27.04.20 to 01.05.20
18.	Biomedical Signal Processing	NPTEL, IIT Kharagpur	12 Weeks, Jan '19 to Apr '19
19.	EC6703 - Embedded and Real Time Systems	Department of ECE, Sri Sairam Engineering College in association with Anna University	06.06.16 to 13.06.16

	20.	Electromagnetic Fields and Transmission Lines	Sri Sai Ram Institute of Technology	25.06.2015 & 26.06.2015
	21.	Advanced Microprocessors and Microcontrollers (AMM '2010)	National Institute of Technology, Calicut	12.07.10 to 17.07.10
	22.	Current and Future Trends in Medical Image Processing	K.S.Rangasamy College of Technology, Tiruchengode	15.06.09 to 27.06.09
	23.	Wavelets and Multiresolution Processing	Department of ECE, Mepco Schlenk Engineering College, Sivakasi	12.11.07 to 22.11.17
	24.	Faculty Empowerment Workshop on "Mission10x" by Wipro	Mepco Schlenk Engineering College, Sivakasi	01.06.09 to 05.06.09

<table>
<tr><th colspan="5" align="center">Conference Details</th></tr>
<tr><th>National & International</th><th>Sl. No.</th><th>Title</th><th>Venue</th><th>Month/ Year</th></tr>
<tr><td rowspan="5"></td><td>1.</td><td>Deep learning - An efficient method for medical image analysis</td><td>AIP Conference Proceedings 2426, 020010 (2022)</td><td>07.12.22</td></tr>
<tr><td>2.</td><td>Pothole Detection using YOLOv4 Model</td><td>International Conference on Bio-Neuro Informatics and Algorithms (ICBNA 2022) organized by Symbiosis Institute of Digital and Telecom Management, Computer Science, Communication and Electrical Engineering in DMI College of Engineering</td><td>21.06.22 & 22.06.22</td></tr>
<tr><td>3.</td><td>Colon Cancer Detection Using YOLOv5 Architecture</td><td>International Conference on Communication, Computing and Internet of Things (IC3IoT), Sri Sairam Engineering College, Chennai.</td><td>10.03.22</td></tr>
<tr><td>4.</td><td>Self - Balancing Robot using Arduino and PID Controller</td><td>ICRTAC – CVMIP 2021-AICTE Sponsored 4th International Conference on Recent Trends in Advanced Computing – Computer Vision Based Machine Intelligence Paradigms – CVMIP – 2021 in collaboration with National Cheng Kung University, Taiwan</td><td>11.11.21- 12.11.21</td></tr>
<tr><td>5.</td><td>Identification of sEMG-based arm actions using feature extraction and machine learning techniques</td><td>Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha</td><td>09.01.20</td></tr>
</table>

	6.	A preliminary study on kinematic analysis of human hand	SLAAI-International Conference on Artificial Intelligence – 2018 organized by Faculty of Information Technology University of Moratuwa, Srilanka	20.12.18
	7.	Statistical Analysis of EMG based Features for Different Hand Movements	2nd International Conference on Smart Computing & Informatics (SCI-2018) jointly organized by Department of CSE & IT, Prasad V Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, India.	27.01.18 - 28.01.18
	8.	Correlation Coefficient based Feature Selection for Actuating Myoelectric Prosthetic Arm	9th International Conference on Trends in Industrial Measurement and Automation (TIMA-2017) at MIT Campus, Anna University, Chennai- 44	06.01.17- 08.01.17
	9.	Detection of ULCER in the Gastrointestinal Tract using the Wireless Capsule Endoscopy images	Seventh Sense Research Group	22.04.16
	10.	Torque distribution and speed steering control for four wheel independent drive electric vehicle	Sri Ramanujar Engineering college	15.03.15
	11.	Vehicle Detection from Aerial Imagery	Shree Motilal Kanhaiyalal Forma Institute of Technology	08.12.13 & 09.12.13
	12.	Maximizing the lifetime of wireless sensor networks using Backbone scheduling method	Sathyabama University	21.02.13 & 22.02.13
	13.	Contourlet Transform based multi- spectral image fusion	MEPCO SCHLENK Engineering College	02.03.12
	14.	Contourlet Transform based multi- spectral image fusion	Sri Sai Ram Engineering College	1.3.2012 & 2.3.2012
	15.	Contourlet Transform based multi- spectral image fusion	IRTT, Erode	29.2.2012 & 1.3.2012
	16.	DCT based IRIS Recognition		08.05.2009
	17.	Comparative Study of Unsharp Masking Methods for Image Enhancement	National Conference on Advanced in Communication and Computing (NCACC '08), Organized by Karpagam College of Engineering	05.04.2008
	18.	Characterization of Metal Images with Iron – Carbon Composition using Wavelet Transform	Dept. of ECE, Mepco Schlenk Engineering College, Sivakasi	11.03.06

Chapter Contribution:

1. Savithri C.N., Priya E., Sudharsanan J. (2021) "Classification of sEMG Signal-Based Arm Action Using Convolutional Neural Network". In: Priya E., Rajinikanth V. (eds) Signal and Image Processing Techniques for the Development of Intelligent Healthcare Systems. Springer, Singapore.

2. J.Sudharsanan, K.Prithivirajan, A.Manikandan, C.N.Savithri and E.Priya (2020), "Identification of sEMG-based arm actions using feature extraction and machine learning techniques", 9th Project Innovation Contest, 16th International Conference on Distributed Computing and Internet Technology, 9th–12th January 2020 at Kalinga Institute of Industrial Technology, Deemed to be University, Bhubaneswar, Odisha, India, Published in book: Project Innovations in Distributed Computing and Internet Technology, Editors: J.Singh et al., pp. 52-56, ISBN: 978-93-5391-188-1.

3. C.N.Savithri, R.Kevin and E.Priya (2019), "A Preliminary Study on Kinematic Analysis of Human Hand". In book: Artificial Intelligence. SLAAI-ICAI 2018. Communications in Computer and Information Science, vol 890, pp. 3-14. Publisher: Springer, Singapore.

4. Chitra R, Savithri C N. "Augmented Reality" Management & Engineering Research Tome published by Bonfring Intellectual Integrity, ISBN : 978-93-89515-20-6.

Journal Details

Sl. No.	Title	Journal Name	Volume/Date

1. C.N.Savithri and E.Priya (2022), "A Machine learning approach to identify hand actions from sEMG signals" Biomedical Engineering / Biomedizinische Technik, Vol. 67, No. 2, pp. 89-103.

2. C.N.Savithri, A.Akshaya, K.Pradeepa, K.Yuvashree (2021), "IOT based monitoring of farm using NODE MCU", International Journal on Cybernetics & Informatics (IJCI) Vol. 10, No.3.

3. C N Savithri,R Chitra, K Jeyapiriya, (2020), "Region –Convolutional Neural Network For The Inspection Of Lymphoblastic Cells", International Journal of Future Generation Communication and Networking. IJFGCN, Vol. 13, No. 4, pp. 3278–3283, ISSN: 2233-7857

4. Savithri, C.N., Kumar, C.S., & Sairam, S.K. (2013). "Vehicle Detection From Aerial Imagery", International Journal of Advanced Trends in Computer science and Engineering, Vol.2 , No.2, Pages : 07-13. Special Issue of NCRTECE 2013 - Held during 8-9 February, 2013 in SMK Fomra Institute of Technology, OMR, Thaiyur, Kelambakkam, Chennai

5. Arivazhagan, S., Ganesan, L., & Savithri, C. N. (2011). Effective multi-resolution transform identification for characterization and classification of texture groups. ICTACT journal on image and video processing, 2(02). ISSN 0976-9102

Patent Details:	Sl. No.	Title	Patent No.
	1.	A Power Generating Kite System-Production of Electricity From The Wind	202041004990 Issued on Feb 14 2020

Additional Details:

Institution Level and Department Level

- ❖ In-Charge for recording Minutes of Department Meeting since 2013
- ❖ Member of Department Advisory Board since 2013
- ❖ Committee member in arranging master of ceremony and memento distribution to guest in Inauguration and Valedictory for all events at Department level
- ❖ Class Coordinator for the Batch 2013-2017
- ❖ Mentor for the batch 2013-2017
- ❖ Project coordinator for the batch 2013-2017
- ❖ In-charge for preparing and submitting documents for Research centre recognition renewal during 2018.
- ❖ Class Coordinator for the Batch 2016-2020, 2019-2023.
- ❖ Mentor for the batch 2019-2023
- ❖ Project coordinator for the batch 2016-2020
- ❖ Sports coordinator for the year 2019-2020
- ❖ PALS innoWah Coordinator the year 2018-2019, 2019-2020, 2020-2021, 2021-2022 and 2022-2023

Online Courses:	Sl. No.	Title		Month/Year
	1.	Deep Learning A-Z Hands on Artificial Neural Networks	Udemy (23hours)	Nov-14 2019
	2.	Introduction to Robotic Process Automation	Future Skill	April -2 2020
	3.	Introduction to Artificial Intelligence	Future Skill	April -9 2020
	4.	Deep learning with Keras and Tensorflow in Python and R	Udemy	April 13 2020
	5.	Support Vector machines in Python – SVM in Python 2019	Udemy	April 15 2020
	6.	Structuring Machine Learning Projects.	Coursera	May-5 2020
	7.	Introduction to Big Data	Coursera	May-18 2020
	8.	AI For Everyone	Coursera	May-31 2020