

Name: Dr.G.SARAVANAN	Photo 			
Designation:	ASSOCIATE PROFESSOR			
Qualification:	M.E.,Ph.D.			
Area of specialization:	APPLIED ELECTRONICS, WIRELESS SENSOR NETWORKS			
Experience:	Industrial Experience		Teaching Experience	
	02 Years		26 Years	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	06		15	
Publications:	Conference		Journal	
	National	International	National	International
	01	15	01	04
Books / Book Chapters	04			
Patents:	National		International	
	10		Nil	
Professional Body Membership	IEEE, ISTE, IETE, NDLI			

Staff Achievements	
	<ul style="list-style-type: none">● Best Teacher Award (2020)● Global Teacher Award (2020)● ISTE Best Secretary Award (2018)● Best Faculty Award (2011)● Multiple 100% Result Achievement Awards

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks/ Grades obtained	Class obtained
UG	B.E.	ECE	1995	ACCET	Madurai Kamaraj University	61	First
PG	M.E.	Applied Electronics	2004	Sathyabama University	Sathyabama University	67	First
Ph.D.	Ph.D.	Wireless Sensor Networks	2018	HITS	HITS	NA	First

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri SaiRam Institute of Technology	Associate Professor	28.11.2011	27.08.2025	13	8	29
Dhanalakshmi College of Engineering	Associate Professor	01.06.2006	26.09.2011	5	2	26
Panimalar Engineering College	Senior Lecturer	01.11.2000	30.04.2006	5	5	-
Sri Balaji Polytechnic College	Lecturer	02.07.1998	24.06.2000	1	11	24
				26	4	19

Workshops/Seminars attended:

FDP/STTP Attended:	10
Symposium Attended:	Nil
Conference Attended:	10
Completed / Ongoing Projects:	0
Patent:	10
Journal Publications:	04
Books / Book Chapters:	03
Awards :	04
Startup:	0
Webinar:	0
Resource Person:	1
Online Courses:	10

Workshops/Seminars:

FDP/STTP:

S.No	Title	No. of days	Year
1.	Emerging Trends and Research Challenges in Next Generation Wireless Networks (online)	6	Feb'2021
2.	Workshop on Teacher Inspiration Week	6	December '2020
3.	AICTE Sponsored STTP on Deep Learning techniques for Ambient Intelligence and Smart Environment	6	December '2020
4.	Workshop on Project to Product	2	November'2020
5.	Workshop on Blockchain Technology insights and its Applications	2	November'2020
6.	AICTE Sponsored STTP on A hands on approach for Design and Implementation of Digital Circuits using open-source CAD Tools	6	October '2020
7.	AICTE sponsored STTP on Supervised and Unsupervised Machine Learning Using Google Cloud	6	October'2020
8.	ATAL FDP on Cyber Security	5	September'2020
9.	Advanced Antenna and RF Technologies for 5G and IoT	6	August'2020
10.	Latest Trends and Challenges in IT Industry	6	June '2020
11.	Image and Embedded Processing	6	April'2020
12.	Emerging Technology in Wireless Communication and Networks	14	December 2019

	with Hands on Training in Advanced Simulators		
13.	ATAL Sponsored FDP Program on Artificial Intelligence in IITDM, Kancheepuram	5	December'2019
14.	AICTE Sponsored Two weeks FDP on Data Science and Exploratory Data Analysis with R and Python	14	June' 2019
15.	Faculty development Programme on EC6802 Wireless Networks	12	December' 2018
16.	ISO 9001:2015 Quality Management System and Audit Training	1	April'23, 2018.
17.	Tech workshop on REDHAT (Open Source) technology & Industry Adaptation.	1	March'2, 2018.
18.	Faculty development Programme on CS 6003 Adhoc and Sensor Network	6	7-14, June' 2017.
19.	Mentor for Smart India Hackathon sponsored by Government of India.	03	1, 2 April'2017.
20.	ISTE sponsored Short Term training program on Recent trends and Research issues in Wireless Communication	02	3, 8 th August 2015.
21.	ISTE Sponsored Faculty development Programme on Electromagnetic Field Theory & Transmission Lines	02	June 25, 26 ,2015
22.	Workshop on How to write Research papers for Refereed Journals	01	Jan 24, 2015.
23.	ISO 9001:2008 Quality Management System and Audit Training	01	11 Dec' 2012.
24.	National Level Seminar on Peer to Peer systems	01	29 July'2011.
25.	Introduction to Labview	02	16,17 Nov'2009

Conferences:

- a. Presented a paper “Integrated Robotic Individual Picking And Space-efficient Rack Restructuring For Optimized Warehouse Management”, ICACST 2023.
- b. Presented a paper “Advancements in Sustainable Charging Infrastructure: Integrating solar Energy and IoT for Smart E-Vehicle Charging Stations”, ICSCNA 2023.
- c. Presented a paper “Smart IoT Solutions for Personalized Health: MQTT- Based Blood Pressure Monitoring System”, ICECA, 2023.
- d. Presented a paper “ Smart Medication Box and Patient Health Monitoring System using IoT”, ICCS July 2020.
- e. Presented a paper “Performance Analysis of Adaptive Cruise Control Mechanism in Vehicular Adhoc Network”, ICETSET, March, 2019.
- f. Presented a paper titled “Prevention of Fishermen from crossing navigational Boundaries based partly using Android application” at ICEEDC, 10th May 2015, Chennai.
- g. Presented a paper “Proficient Energy Consumption Algorithm Using HMAC and

ANTColony-Based Algorithm” at ICICIC Global, 12-14th February 2015, Chennai.

h. Presented a paper “Hybrid Genetic algorithm for lifetime maximization of WirelessSensor” at ICCIT, 13-14th August, 2015.

Projects Applied

Sl.No	Title of the Proposal & Date of Submission PI&Co-PI Names,Designation & Dept	Estimated Budget Rs.	STATUS
1.	Title: SMART PLASTIC DISPOSAL AND e – MONEY CREDIT SYSTEM PI : Dr.G.SARAVANAN Co – PI : Dr.SU.SUGANTHI <i>Proposal Submitted for: TNSCST</i> <i>Date:15/02/2018</i>	Rs.2,00,000	Not Sanctioned
2.	Title:PRERANA PI: Dr.G.SARAVANAN <i>Proposal Submitted for: AICTE</i> <i>Date:27/11/2018</i>	Rs.10,000,00	Sanctioned
3.	Title: EMERGENCY COMMUNICATION SYSTEM FOR DISASTER MANAGEMENT USING LONG RANGE RADIO PI : Dr.S.RAJARAJAN Co – PI Dr.G.SARAVANAN <i>Proposal Submitted for: DST</i> <i>Date:04/11/2019</i>	Rs.23,09,100	Not Sanctioned
4.	Title: E-GLOVE PI : Dr.G.SARAVANAN <i>Proposal Submitted for: IEDC, DST</i> <i>Date:29/01/2019</i>	Rs.1,00,000	Sanctioned
5.	Title: IN-HOUSE SHORT-TERM TRAINING/FDP PROGRAMMES FOR FACULTY/UG/PG/DOCTORAL STUDENTS OF TWO WEEKS DURATION PI :Dr.G.SARAVANAN Co – PI: Dr.S.RAJARAJAN <i>Proposal Submitted for: DST</i> <i>Date:27/11/2019</i>	Rs. 7,15,500	Not Sanctioned

6.	Title: RAILWAY HEALTH MONITORING SYSTEM USING SMART WIRELESS SENSOR NETWORK PI: Dr.G.SARAVANAN <i>Proposal Submitted for: TNSCST</i> <i>Date: 20/01/2021</i>	Rs.10,000	Awaiting
7.	Title: ATAL FDP ON BLOCKCHAIN PI: Dr.G.SARAVANAN <i>Proposal Submitted for: AICTE</i> <i>Date:26/02/2021</i>	Rs.2,00,000	Awaiting

Patent filed

S.No	Title of the Patent	Year	File Number	Published/Granted
1.	FUTURISTIC PUBLIC TRANSIT PODS PICKUP AND DROP BY POWER LINE COMMUNICATION	August 2020	202041031870	PUBLISHED
2.	E- GLOVE	January 2024	202041042710	GRANTED
3.	ADITI – A WOMAN SELF DEFENCE SYSTEM USING IoT	November 2022	202141053600	PUBLISHED
4.	VOICE CONTROLLED MOVING INTELLIGENT TRASH BIN	December 2022	202241074788	PUBLISHED
5.	E- BAG	February 2023	202341007800	PUBLISHED
6.	GRINDER 2.0	May 2023	202341036148	PUBLISHED
7.	AGRISENSE ROBOT	January 2024	202341085017	FILED

International:

Journals :

S.No	Paper Title	Year
1	Smart IoT solutions for personalized health: MQTT-based blood pressure monitoring system	2023
2	Convolutional Neural Networks-based Real-time Gaze Analysis with IoT Integration in User	2023

	Experience Design	
3	Experimental and theoretical analysis of FDM AM PLA mechanical properties	2023
4	Smart train accident detection and prevention system using IoT technology	2021
5	Advancements in sustainable charging infrastructure: integrating solar energy and IoT for smart E-vehicle charging stations	2023
6	Smart Driving Licensing System and Authorization of Autonomous Vehicle Integrating Wireless Sensor Networks and IoT	—
7	Ultrasonic Sensor Based Haptic Feedback Navigational System for Deaf-Blind People	2020
8	Data mules-oriented particle swarm optimisation-based mobile sink data gathering techniques with analytical data analysis using linear regression	2018
9	IoT Based Soil Moisture Monitoring and Nutrients Suggestion Based on the Soil PH Value	2024
10	Estimation of Microwave Dielectric Constant Using Artificial Neural Networks	2018
11	Network lifetime estimation of wireless sensor networks using communication protocols with non-parametric models	2018
12	Mobile Sink Data Gathering Technique for Wireless Sensor Networks using PSO	2016
13	Proficient energy consumption algorithm using HMAC and ANT colony-based algorithm	2013
14	Ethical Intelligence by Design: Bias Mitigation through Nature-Inspired Machine Learning	2025
15	A Unified Framework for Swarm Intelligence to Enhance Convergence and Reliability	2025
16	HHO-NOMA: Harris Hawks Optimization Model for Energy-Efficient Dynamic Allocation in 5G Downlink	2025
17	Modified C-ED sensing under Maximum Select Logic with improved detection accuracy using Whale Optimization Algorithm in CR-WSN	2025
18	Early Disease Prediction using Supervised Machine Learning	2025
19	Unyielding Integrity & Safeguarding In Digital Forensics Through Blockchain Integration	2025
20	Deep Learning Based Fruit Harvest and Quality Control System (Agripick)	2024
21	Demystifying AI: A Robust and Comprehensive Approach to Explainable AI	2024
22	Data Governance in the Big Data Era: A Scalable Framework for Effective Management and Regulatory Compliance	2024
23	Integrated Robotic Individual Picking and Space-Efficient Rack Restructuring for Optimized Warehouse Management	2024
24	IoT based Smart Agriculture Monitoring using Support Vector Machine	2023

25	Exertion of WSN and UAV for Performance Measurements in Railway Bridges	2021
26	Performance analysis of acrylic material based prosthetic limb with EMG signal	2021
27	Smart Medication box and patient health monitoring system with IoT	2020
28	Receiver Initiated Dynamic Duty Cycle Scheduling Scheme For Underwater Wireless Sensor Networks	2020
29	River Pollution Control System through Efficient Monitoring of Industrial Effluent Discharge	2020
30	Prevention of Fisherman from crossing Navigational Boundaries based partly using Android application	2015
31	Hybrid genetic algorithm for life time maximization of wireless sensor	2015
32	Lifetime Estimation of WSN with Enhanced Pairwise Directional Geographic Routing	—
33	Intelligent warehouse system for Smart Commercial Applications	—

Awards:

S.No	Title	Year
1.	Received “Best Teacher Award 2020” from IPR Publications, Tamilnadu.	Oct’2020
2	Received “Global Teacher Award 2020” from GTA powered by AKS Foundation, India.	Dec’2020
3,	Received the award from ISTE Tamilnadu for mobilizing more faculty members in the Staff Chapter for the year 2019.	Dec’2019
4.	Tamilnadu ISTE Chapter best Secretary Award for the year 2018	March’2019
5.	Best Co ordinator award for ‘Robospecies’ Workshop in association with IIT Bombay.	Sep’ 2014
6.	Cash award for 100% result from Sri Sairam Institute of Technology	Sep’ 2015
7.	Cash award for 100% result from Sri Sairam Institute of Technology	Sep’ 2016
8.	Cash award for 100% result from Sri Sairam Institute of Technology	Sep’ 2017
9.	Best Faculty award from Dhanalakshmi College of Engineering	Nov’2011
10.	Cash award for 100% result from Dhanalakshmi College of Engineering	Dec’ 2007, 2010

Webinar: Nil

ON - LINE COURSES

S. No	Nomenclature of Qualification	Name of the University	Year of Completion
1.	Udemy Online Certification Course (Tech Explorations Arduino Step by Step Getting Serious)	Udemy	November 2019
2.	Fundamentals of Audio and Music Engineering	University of Rochester	May 2020
3	Improve Business Performance with Google Forms	COURSEERA PROJECT NETWORK	August 2020
4.	Digital Manufacturing & Design	State University of New York	May 2020
5.	Building Digital Media using Graphic Design in Google Slides	COURSEERA PROJECT NETWORK	August 2020
6.	Create Informative Presentations with Google Slides	COURSEERA PROJECT NETWORK	August 2020
7.	Introduction to Deep Learning	National Research University	May 2020
8.	Introduction to Project Management	COURSEERA PROJECT NETWORK	August 2020
9.	Introduction to Psychology	University of YALE	June 2020
10.	Spreadsheets for Beginners using Google sheets	COURSEERA PROJECT NETWORK	August 2020
11.	Basic Image classification with TensorFlow	COURSEERA PROJECT NETWORK	August 2020

NITTTR Courses:

S. No	Name of the Module	Name of the Authority	Year of Completion
1.	Module 1_ Orientation Towards Technical Education and Curriculum Aspects	AICTE – NITTT	June 2021
2.	Module 2_ Professional Ethics & Sustainability	AICTE – NITTT	June 2021
3	Module 3_ Communication Skills, Modes & Knowledge Dissemination	AICTE – NITTT	June 2021
4.	Module 4_ Instructional Planning and Delivery	AICTE – NITTT	June 2021
5.	Module 5_ Technology Enabled Learning & Life Long Self Learning	AICTE – NITTT	June 2022
6.	Module 6_ Student Assessment and Evaluation	AICTE – NITTT	June 2022
7.	Module 7_ Creative Problem Solving , Innovation and Meaningful R & D	AICTE – NITTT	June 2022
8.	Module 8_ Institutional Management & Administrative Procedures	AICTE – NITTT	June 2022

Professional Membership

S.No	Title	Membership No.	Year
1.	Senior Member, IEEE	98075697	Since 2021
1.	Life Member, Indian Society for Technical Education (ISTE), India.	LM 87091	Since 6 years
2.	Associate Member, Institution of Electronics and Telecommunication Engineers (IETE)	AM-501770	April 2020
2.	Member, International Association of Engineers (IAENG), India.	205236	December 2017
3.	Member, National Digital Library, India	---	March 2018