


<b>Name:</b>	<b>Dr. P.SATHYARAJ</b> 		
<b>Designation:</b>	Associate Professor / CSE(IoT)		
<b>Qualification:</b>	ME, MBA, Ph.D.,		
<b>Area of specialization:</b>	Wireless Networks, IoT , Machine Learning and Cyber Physical Systems		
<b>Experience : (As On December 2022)</b>	<b>Industrial Experience</b>	<b>Teaching Experience</b>	
	-	17 Years and 3 months	
<b>Number of workshop / FDP attended:</b>	<b>Number of Workshops</b>	<b>Number of FDPs</b>	
	9	15	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>
	<b>National</b>	<b>International</b>	<b>National</b>
	2	7	15
<b>Patents:</b>	<b>National</b>		<b>International</b>
	8 (1-Granted)		-
<b>Professional Body Membership:</b>	➤ Life member in THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) -M.No: LM 87622 ➤ Life member in the IAENG International Association of Engineers		

	(517817) ➤ IEEE Member: M.No: 100678052			
<b>Staff Achievements:</b>	➤ Anna University recognized supervisor- Supervisor Id: 4390020 Guiding 6 Ph.D scholars under Anna University.  ➤ <b>Dr.S.RADHAKRISHNAN VISIONARY MENTOR AWARD</b> on 31st august 2025.  ➤ <b>Young Teaching Faculty Award</b> from Engineering Professional Society during the year 2018.  ➤ A patent titled "Solar Operated Proficient System for Precision Agriculture Using IOT" was granted during the year 2022  ➤ <b>Wadhwani Course</b> certified as provisionally completion to his credit of Start-up Journey.  ➤ <b>Wipro certified faculty</b> in the domain of full stack development (Java) to his credit.  ➤ <b>Mentor for students in the ATL Tinkerpreneur 2025 Bootcamp</b> , organized under the Atal Innovation Mission (AIM), NITI Aayog			
<b>Guest Lectures and Seminar Presentations done :</b>	➤ <b>IOT Unleashed: Building Smart Solutions for a Connected World"</b> A Guest lecture session Delivered on 05.03.2025 at Vels Institute of Science and Technology.  ➤ Guest lecture on Digital IIR Filter Design at panimalar Engineering College on 20.08.2020.  ➤ Guest Lecture on Mobile IP Network layer at Panimalar Engineering College on 26.04.2021.  ➤ Delivered a Session for AICTE Sponsored FDP on DSP at Saveetha Engineering College title "Finite Word Length Effects" on 18.11.2020.			
<b>Conference Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>

	1.	AI Driven Decision Support Systems for Strategic Management in Smart Industries	IEEE International conference on Advances in Next-Gen Computer Science(ICANCS-2025)	NOV 2025
	2.	Solar Powered IoT Aquaponics Monitoring with Machine Learning Integration	IEEE International Conference on Emerging Trends in Computing and Communication(ETCOM 2025)	NOV 2025
	3.	Smart Drone for Surveillance and Reducing Human Elephant Conflicts	IEEE International Conference for Advancement in Technology (ICONAT 2025)	SEP 2025
	4.	Method for preserving privacy in wearable IoT devices by extending security using fog computing	International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 4.0	August 2024
	5.	Secure Device on boarding in IoT Networks	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	SEP 2024
	6.	AI-Optimized Placement and Routing for PCB Design	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)	SEP 2024
		Texture gradient and Intensity	Conference on Recent Trends in Instrumentation	

	7.	gradient features measurement for boundary detection in medical images	systems”- NCETIS’12,Coimbatore,pp 55-58.	APRIL 2012
	8.	HIT and MISS: A Haphazard Zone Panel Protocol for Manets	Conference on computing technologies today and beyond-NCCTB-2014	MAY 2014
	9.	A Novel Based Analysis of Baffled Traffic Patterns in Manets",St.Peter's college of engineering and technology.	Second International conference on sensing signal processing and security-ICSSS-2015	DEC 2015
	10.	A Dynamic Resource Allocation Protocol: Device to Device Communication in MANETs	IEEE Conference conducted by Shri Krishna College of Engineering and Technology, Coimbatore.	
	11.	FPGA Implementation of a modified SMS4-BSK Cipher with Novel Efficient XOR Gate Design	PPG Institute of Technology, 2022.(IEEE XPLORE).	March 4 &5 2022
				MAY 2022

Journal Details:	Authors/ Title	Journal Name	Volume/Date
	1.Sathyaraj P,Rukmani Devi S & Kannan K, “Host Based Detection and Prevention of Black-Hole Attacks by AODV-ICCSO Algorithm for Security in MANETs”	Ad-Hoc Sensor and Wireless Network,2023.(WOS)	FEB 2023(WOS)
	2.Sathyaraj P, Rukmani Devi ,D,” Designing the routing protocol with secured IOT devices and QoS over Manet using trust-based performance evaluation method”	Journal of Ambient Intelligence and Humanized Computing	JULY 2020.(WOS)
	3.Dhivya K,Kannan K, Sathyaraj P, Rosaline S,” A Study on Realistic Route Preference with Improved QoS in Industries Via MANET	Design Engineering (Toronto) & 0011-9342,2020.	NOV 2020(WOS)
	4.Deepa D ,Sathyaraj P,” Improved Audit based Malevolent node Detection and Energy Efficiency For health care Applications	European Journal of Molecular & Clinical Medicine(EJMCM),2515-8260,2021	OCT 2021(Scopus)
	5.Sathyaraj.P.,RukmaniDevi.S and Kalpana.D,” Efficient Routing protocol for maintaining better Energy Management in Sensor Networks”, Vol (5), Issue 1, December 2015, pp.1-18.	International Journal of Electronics and Communication Engineering	DEC 2015(Scopus)
	6.Kalpana D and Sathyaraj.P	International Journal for	JUNE  2014(SCOPUS)

	," HIT and MISS: A Haphazard ZonePanel Protocol for Manets"	Advance Research in Engineering and Technology.	2023(WOS)
	7.Sathyaraj P,Rukmani Devi D and Kannan K," A Cooperative Attack Detection Framework for MANET-IOT Network using optimized Gradient Boosting Convolutional Neural Network,Vol.32,No.14(2023). (WOS)	Journal of Circuits, Systems & Computers	2023 (WOS)
	8.Sathyaraj P, Rukmani Devi S, Kannan K, 'Smart and Secured Data Communication using Modified AODV Protocol overWireless Communication Networks.	(AIPCP),November 2023	

S.NO	PATENTS	YEAR OF PUBLISHING
1	A SYSTEM FOR AUTISM SPECTRUM DISORDER CLASSIFICATION USING DEEP LEARNING,202341026991A	Published on 05/05/2023.
2	AN ARTIFICIAL INTELLIGENCE BASED IOT SECURED SYSTEM, 202241050353A	Published on 09.09.2022.
3	SOLAR OPERATEDPROFICIENT SYSTEM FORPRECISION AGRICULTURE USING IOT, 202241001199A	Published on 21/01/2022. (GRANTED on 20.11.2023)
4	SYSTEMFOR NODE LOCATION AND QOS IMPROVEMENT IN MANET, 202141053153A	Published on 03/12/2021
5	QOS ROUTING PROTOCOL DESIGN FOR MANETS, 202041050554A	Published on 04.12.2020
6	Solar Powered IoT Aquaponics Monitoring with Machine Learning Integration,202441083944A	Published on 08.11.2024
7	IoT BASED SMART VERTICAL GARDEN MONITORING AND MANAGEMENT	Published on 21.03.2025

	SYSTEM,202541020615A	
8	A TIME SYNCHRONIZATION METHOD AND MANAGEMENT FOR TIME-SENSITIVE COMMUNICATION IN A 5G SYSTEM2022441031621 A	Published on 21.04.2024

S.NO	BOOKS/BOOK CHAPTERS PUBLISHED	YEAR OF PUBLISHING
1	Published a book chapter titled “Bridging Technology and Empathy:Human Centered AI Application”, Wiley Scrivener Publishing. 6. Published a text book titled “Python Programming -Hands on Approach”,Scientific International Publishing House.	2025
2	Published a text book titled “Python Programming -Hands on Approach”,Scientific International Publishing House.	2025
3	”Computer Security and Privacy: Principles and Practices” a chapter published in Innovations in computer Science and Engineering: Edge Technologies and Future Directions,ISBN:978-93-91930-44-8,May 15,2023.	2023

S.NO	TITLE/ FDP ATTENEDED	ONLINE/OFFLINE	NAME OF THE COLLEGE.INDUSTRY	DATE OF FDP
1	NIT Warangal sponsored FDP on End to End Solutions: IoT Research perspectives	ONLINE	NIT,WARANGAL	03.06.2024 to 13.06.2024
2	National level STTP program on Full stack Development and React JS	ONLINE	Brain O Vision organized by Sri Sairam Engineering College	02.12.2024 to 22.12.2024
3	ATAL FDP ON:AI & Quantum Computing: Glimpsing the near future	ONLINE	Sri Sairam Engineering College	20.01.2025 to 25.01.2025
4	ATAL FDP on: Integration of IOT on Embedded Systems	ONLINE	Atharva College of Engineering	06.01.2025 to 11.01.2025
5	5 Days International FDP on AI in Cybersecurity	ONLINE	RAMCO Institute of Technology	17.02.2025 to 21.02.2025
6	Cutting Edge Research and	ONLINE	MLR Insitute of	12.08.2024

	Technologies in Signal processing using MATLAB		Technology	to 17.08.2024
7	6 Days FDP on Emerging Trends in AI and its Applications	ONLINE	Sri Sairam Engineering College	16.12.2024 to 21.12.2024
8	Data Analysis with Numpy, Pandas and Python	ONLINE	Scalar,Master Class	11.02.2025
9	One Week National Level FDP on AI Tools (6pm to 8pm)	ONLINE	Brain O Vision organized by Sri Sairam Engineering College	17.02.2025 to 21.02.2025
10	Salesforce Administator:ICT ACADEMY	OFFLINE	ICT ACADEMY:SRI SAIRAM ENGINEERING COLLEGE	08.06.2024 to 12.06.2024
11	FDP on Empowering the Future:Unleashing the Potential of Data and AI	ONLINE	Sathyabama Institute of Science and Technology	05.08.2024 to 09.08.2024
12	Charting the Horizon:Future the role of standards,leadership and Engagement	ONLINE	IEEE	22.02.2025
13	Advancements in Computing Technologies and Internet of Things	ONLINE	VIT -Chennai	21.10.2024 to 25.10.2024
14	ATAL FDP on:IoT in Health care: Transforming patient care and Management	ONLINE	Sri Venkateswara College of Engineering	09.12.2024 to 14.12.2024
15	AICTE Training And Learning (ATAL) Academy Faculty Development Program on IoT DATA ANALYSIS WITH PRACTICAL AND EXPLORATORY APPROACH	ONLINE	AYYA NADAR JANAKI AMMAL COLLEGE	22.09.2025 to 27.09.2025
16	FDP on Generative AI for Teaching	ONLINE	AKT Memorial College of Engineering & Technology	29.09.2025
17	“Quantum Computing and its Applications”	ONLINE	VELS Institute of Science, Technology & Advanced Studies	22.10.2025 - 27.10.2025