

Name: Dr S.Sumathi				
Designation:	Professor			
Qualification:	B.Tech, ME ,P.hD			
Area of specialization:	Image Processing, Biometrics, Signal Processing, Embedded System			
Experience :	Industrial Experience		Teaching Experience	
	--		27 Years	
Number of workshop / FDP attended:	Number of Workshops		Number of FDPs	
	40		20	
Publications:	Conference		Journal	
	National	International	National	International
	20	40	4	15
Patents:	National		International	
	23		6	
Professional Body Membership:	<p>Life Member, Indian Society for Technical Education (ISTE), India.</p> <p>Life Member, Broadcast Engineering Society (BES), India</p> <p>Life Member, Institution of Electronics & Telecommunication Engineers (IETE), New Delhi, India.</p> <ul style="list-style-type: none"> ● Member in IEEE Engineering in Medicine and Biology Society. ● Member in IEEE Communication Society ● Member in IEEE Solid State Circuits Society ● Member in IEEE Circuits and Systems Society ● Member in IEEE WIE 			

Staff Achievements:

- Received **Best teacher award** from Lions Club of Madras Metropolitan South, on the occasion of Teacher's day celebration 2006 and 2010.
- Received the **Best ISF Co-Ordinator Award** consecutively for the last 8 years 2016-17, 2017-18, 2018-19, 2019- 20, 2020-21, 2021-22,2022-23,2023-24 for organizing technical events and promoting the IETE activities in the college. This award is given by IETE, Chennai Centre.
- Received SEEE (Society for Engineering Education Enrichment) Awards 2020 under the category "**Dr. A.P.J ABDUL KALAM AWARD FOR INNOVATIVE RESEARCH** "
- Received "**Women Researcher Award**" in the International Scientist Award on Engineering, Science and Medicine, VDGGOOD Professional Association on August 2021.
- Received "**Woman Academic Mentor of the year 2022 Award**" from Women Power India Awards 2022 by RAJ SQUARE CHARITY FOUNDATION & MSME CHAMBER OF COMMERCE & INDUSTRY OF INDIA on March 2022.
- Received "**GEM OF MENTOR OF INDIA**" award from ATAL Innovation Mission during the period 2020-2021.
- Received "**Top Performing and Most Popular Mentor for students in ATL Tinkerpreneur 2021**" award from ATAL Innovation Mission.
- Received **Best Consultant award** from IQAC, Sri Sairam Engineering College, on the occasion of Teacher's day celebration 2022.
- Received "**Top Performing and Most Popular Mentor for students in ATL Tinkerpreneur 2023**" award from ATAL Innovation Mission.
- Received "**Woman MoU Lead of the year Award**" from Women Power India Awards 2024 by RAJ SQUARE CHARITY FOUNDATION & MSME CHAMBER OF COMMERCE & INDUSTRY OF INDIA on March 8th 2024.
- Received "**Top Performing and Most Popular Mentor for students in ATL Tinkerpreneur 2024**" award from ATAL Innovation Mission.
- Received "**Exemplary Award**", from **IETE New Delhi** appreciation for proactive support,service and volunteering for the activities conducted in IETE Chennai Centre

during 2022-24 as an Executive Committee member.

- Received **Best Mentor-PGPA award** from IQAC, Sri Sairam Engineering College, on the occasion of Teacher's day celebration 2024.
- Received **Best Mentor-PGPA award** from IQAC, Sri Sairam Engineering College, on the occasion of Teacher's day celebration 2025.
- Received "**Exceptional Contribution Award**", from **IETE New Delhi** appreciation for proactive support, service and volunteering for the activities conducted in IETE Chennai Centre during 2024-25 as a Honorary Treasurer .
- Completed **NPTEL FACULTY DOMAIN ADVANCED** during 2025
- Completed **PG certificate Program on IoT and Embedded Systems** from **Indian Institute of Technology, Jammu**, during 23rd February 2025 to 30th November 2025.

Responsibility:

1. As a Mentor of Change (MoC), Assigned by AIM, NITI AAYOG -ATL, SHREE NIKETAN MATRICULATION HIGHER SECONDARY SCHOOL, TIRUVALLUR.
2. Coordinator and Organizer for various workshops, Seminars, STTP, National conference and International conference.
3. Received Grant from CSIR, BRNS, ISTE, TNSCST to organize National workshop, Conference, STTP and Seminar.
4. Honorary Treasurer- Institute of Electronics and Communication Engineer(IETE), Chennai Center for the period (2024-2026)
5. IETE Chennai Centre Executive Committee Member during 2006-2008, 2018-20
6. IETE Chennai Centre Co Opted Executive Committee Member during 2017-2018, 2022-24
7. Examiner for AMIETE & DIPIETE Practical Exam.
8. Observer for AMIETE & DIPIETE theory Exam.

INVITED TALKS

1. Delivered a lecture on Importance of Research methods at the Pre Conference Workshop in International Conference on Transformation through Innovations and Reinvention in Business practices 2023 organized by Shri Krishnaswami College for Women on 15.3.23.
2. Delivered a lecture on Develop Effective Collaborative Proposals at FDP on Research Methodology & Teaching at Shri Krishnaswami College for Women on October 2022.
3. Delivered a lecture on "**Biometrics for Healthcare Applications**" at Sri Venkateshwara College of Engineering, Sriperumbudur on June 2021.
4. Delivered a Keynote on "**Biometrics in Healthcare**" in National Virtual Conference on Innovations in Engineering, Science & Technology (NVCIENT 2021) at Kalasalingam Institute of Technology on 25 & 26 March 2021.
5. Delivered a Keynote on "**Biometrics in Women Safety and Childcare Authentication**" in First International Conference for Women in Multifaceted Research (ICWMR 2021- Special Session on WISE on 8th March 2021.
6. Delivered short course on "**Signal Processing and Deep learning techniques for the development of Intelligent Healthcare systems**" in IEEE Technically sponsored Internal Conference on Communication, Computing and Internet of Things, February

2018.

7. Delivered a lecture on “**An overview of Multibiometrics**”at IETE Chennai Centre on Dec 2012.

REVIEWER & SESSION CHAIR

1. Reviewer for IEEE Madras Section Technically Co-Sponsored International Conference on Computing, Communication, Control and Cyber-Physical Systems (I5CPS-2026) National Institute of Technology Puducherry.
2. Reviewer for the International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication (iConSCEPT 2025),National Institute of Technology Puducherry Karaikal, India.
3. Reviewer for the IEEE International Conference on Advanced Computing Technologies (ICoACT-2025) P.S.R. Engineering College, Tamil Nadu, India
4. Reviewer for the International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication (iConSCEPT 2023),National Institute of Technology Puducherry Karaikal, India.
5. Reviewer for the International Conference on Networking and communications (ICNWC 2023) on April 5th and 6th 2023,SRM Institute of Science and Technology, Chennai,
6. Reviewer for the 12th IEEE International Conference on Advanced Computing,ICoAC 2023, Anna University, MIT campus, Chennai.
7. Reviewer for International Conference on Nextgen Electronic Technologies - Silicon to Software(ICNETS2), 2017 -VIT University, Chennai.
8. Reviewer for IEEE International Conference on Computing and Communication Technology (ICCT'17) at Sri Sairam Engineering College, Chennai.
9. Reviewer for ACM International Conference on Deep Learning Technologies (ICDLT 2017)), which will be during June 2-4, 2017, Chengdu, China.
10. Reviewer for IEEE 3rd International Conference on Inventive Computation Technologies (3rd ICICT 2018) during Nov 15-16, 2018 by RVS Technical Campus, Coimbatore, Tamilnadu, India.
11. Reviewer and Technical Committee member for the ACM International Conference on Communication and Information Processing Information system (ICCIP'18), November 2-4, 2018 | Academic Exchange Center in Ocean University of China.
12. Reviewer for the IEEE International Conference on Communication and Information system (ICCIS'18), Nanyang Technological University, Singapore on December 28-30
13. Reviewer for the IEEE 4th International Conference on Image, Vision and Computing will be held during July 5-7, 2019 in Xiamen, China.
14. Reviewer for the International Conference on Communication and Information Processing (ICCIP2019) will be held in Chongqing, China during November 15-17, 2019
15. Reviewer for 6th International Conference on Deep Learning Technologies (ICDLT 2022)), which will be during July 26-28, 2022, Xian, China.
16. Reviewer for IEEE International Conference on Computing and Communication Technology (ICCT'21) at Sri Sairam Engineering College, Chennai.
17. Reviewer and session chair for the International Conference on Communication and Information Processing (ICCIP 2021) will be held in Beijing, China during December 16-18, 2021.
18. Reviewer for IEEE International Conference on Communication Computing and Internet of Things (IC3IOT'22) at Sri Sairam Engineering College, Chennai.
19. Reviewer for the International Conference on Communication and Information Processing (ICCIP 2023) will be held in held during December 14-16, 2023 in Lingshui, Hainan, China.
20. Reviewer for IEEE International Conference on IConSCEPT2023 at NIT Puduchery
21. Reviewer for IEEE International Conference on Communication Computing and Internet of

- Things (IC3IOT'22) at Sri Sairam Engineering College, Chennai.
22. Reviewer for IEEE International Conference on Advanced Computing Technologies(ICoACT-2025) PSR Engineering College, Sivakasi.
 23. Reviewer for IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS'24), at Sri Sairam Engineering College, Chennai

EDITOR

International journal of advances in signal and image sciences

Technical committee member

- Technical program committee member of ACM-ICDLT 2017.
:<http://www.icdlt.org/committee.html>
- Technical program committee member of ACM-ICDLT 2018
<https://easychair.org/cfp/ICDLT2018>
- Technical program committee member of ICCIP 2019
<http://www.iccip.org/committee.html>
- Technical program committee member of ICIVC 2019
<http://www.icivc.org/committee.html>
- Technical program committee member of ICCIP 2020
<http://www.iccip.org/committee.html>

FUNDED PROJECTS

Sl. No.	Project Title	Funding Agency	Duration	Approved Budget	Status
1	Aero Growth Squad (AGS)"[IDz i2i2024W00281]	Indian Institute of Technology Madras	6 months(June 2025-Dec2025	Rs 50,000/- Won Rs100000/- Cash prize	Completed
2	Vertical Tower Farming(Aeroponics)	IEEE-HTB Tech4Good	6 months Sep 2024 -Mar 2025	US\$ (3,300+995) Rs3,60,738	Completed
3	Comparative Study of Image Processing Techniques for Measuring In-Situ Bow of FBR Fuel subassembly	DAE-BRNS	3 years 2020-2024	Rs 24, 48,650/	Completed
4	A low-cost smart ventilator using IoT	SEED Funding-MHRD&NIT, Trichy	8 months 2020-2021	Rs 70,000/ (Patent Granted-402746)	Completed
5	Smart Rapid Virus Test Kit with IR Thermometer	SEED Funding-MHRD&NIT, Trichy.	6 months 2020-2021	Rs 10,000/	Completed

PATENTS

Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status

1	IoT Based Smart Multi-Functional Ventilator System and Thereof	National Institute of Technology, DrDuraiSelvam, G.A Aravindakshan, JoybeMathew,Dr S Sumathi,DrMithileyshsathyanarayanan	402746	01.08.2022	Indian	Granted
2	System and method to control turn indicators of automobiles	Allinow Research and Private Ltd, Dr S Sumathi, etl	327282	12.12.2019	Indian	Granted
3	Internet of Things (IoT) Based Ultraviolet (UV-C) Disinfecting and Pest Controlling Device	1)MIT SQUARE SERVICES PRIVATE LIMITED1)Subiksha. S 2)Kirthikka. S 3)KajolMohanty 4)Dr S. Sumathi 5)DrMithileyshSathiyarayanan	202041039129 A	25/09/2020	Indian	Published
4	A WEARABLE APPARATUS TO DETECT AND MONITOR PERSONAL HEALTH	1)MIT SQUARE SERVICES PRIVATE LIMITED,1)Kishore Kumar Balaji 2)Divya Ganesh 3)DrMithileyshSathiyarayanan 4)Dr S. Sumathi	202041027319 A	10/07/2020	Indian	Published
5	METHOD AND AUTOMATED HEALTH MACHINE FOR PROVIDING HEALTHCARE SERVICES TO PATIENTS USING IOT	1)MIT SQUARE SERVICES PRIVATE LIMITED1)Divya Ganesh 2)GayathriSeshadri 3)DrSumathiSokkanarayanan 4)Panjavarnam Bose 5)DrSharanyaRajan 6)DrMithileyshSathiyarayanan	202041047240 A	27/11/2020	Indian	Published

6	AN INTERNET OF THINGS (IOT) BASED AIRBAG APPARATUS	1)MIT SQUARE SERVICES PRIVATE LIMITED1)DrMithileyshSathiyarayanan 2)DrSumathiSokkanarayanan 3)S NikithaSaravanan	202041027335 A	17/07/2020	Indian	Published
7	MULTI-FUNCTIONAL AUTOMATIC TOUCH FREE HAND SANITIZER DEVICE	1)Sathish G2)Dr.MithileyshSathiyarayanan 3)Srivarshan G 4)Dr.SumathiSokkanarayanan 5)Deepak S 6)Santhosh V	202041043062 A	09/10/2020	Indian	Published
8	Automatic Health Machine	MIT Square Pvt Ltd, Divya Ganesh, Vasundaradevi,Prashanth, SumathiSokkanarayanan	370395-001	04.01.2023	Indian-Design Patent	Granted
9	IoT Based UV-C Disinfecting Device	MIT Square Pvt Ltd, Divya Ganesh, Vasundaradevi,Prashanth, Subhiksha,Kirttika,Kajol,Sumathi, MithileyshSokkanarayanan	374311-001	19.01.2023	Indian-Design Patent	Granted
10	Wireless charging system	VishanAmarnath, PrashanthGovindarajan,Srivarshan,DrSumathi, DrMithileysh	366627-001	16.05.2023	Indian-Design Patent	Granted
11	Solar Powered IoT Enabled Sanitizer Dispenser"	MIT Square Pvt Ltd, Divya Ganesh, Vasundaradevi,Srivarshan,DrSumathi, DrMithileysh,DrSaranyaRajan	372909-001	10.01.2023	Indian-Design Patent	Granted
12	Suitcase Based Virus Detection Kit	Dr. S. MithileyshDr. M. DuraiselvamSathyaKandan,Dr. SumathiSokkanarayananSaranyaRajan Ms. Bhuvaneshwari	6295566	03.08.2023	InterNational(UK) - Design Patent	Granted

13	Doctor Based Small Multifunctional Ventilator	Dr. S. Mithileysh Dr. M. Duraiselvam SathyaKandan, Dr. Sumathi Sokkanarayanan SaranyaRajan Ms. Bhuvaneshwari	6295565	03.08.2023	InterNational(UK) - Design Patent	Granted
14	Solar Sanitizer Dispenser	1)DrMithileysh Sathiyarayanan 2.)DrSumathi Sokkanarayanan 3)Divya Ganesh 4)Srivarshan 5)Prashanth 6)Vishan Amarnath	6303640	25.08.2023	InterNational(UK) - Design Patent	Granted
15	Smart Wireless Fidelity and Charging System with In-built Internet Router	1)DrMithileysh Sathiyarayanan 2.)DrSumathi Sokkanarayanan 3)Divya Ganesh 4)Srivarshan 5)Prashanth 6)Vishan Amarnath	6303641	24.08.2023	InterNational(UK) - Design Patent	Granted
16	Covid Detection System integrated with sanitizer Dispense	MIT Square service pvt Limited, DivyaGanesh, SumathiSokkanarayanan, S haranyaRajan, Mithileyshsathyanarayan an	389931-001	10.07.2023	Indian-Design Patent	Granted
17	IOT Enabled Virus Detection Kit	MuthukannanDuraiselvam, Sathya K, SumathiSokkanarayanan, Sharanyarajan, MithileyshSathiyarayanan, Bhuvaneshwari Loganathan	389942-001	10.07.2023	Indian-Design Patent	Granted
18	Smart Bin with LED Display	MIT Square service pvt Limited, Thanujabalasundaram, SumathiSokkana rayanan, SathyaK, Mithileyshsathyanaray anan	380109-001	24.02.2023	Indian-Design Patent	Granted
19	IOT Enabled Multi Functional Ventilator	MuthukannanDuraiselvam, Sathya K, SumathiSokkanarayanan, Sharanyarajan, MithileyshSathiyarayanan,	389934-001	10.07.2023	Indian-Design Patent	Granted

		Bhuvaneshwari Loganathan				
20	Graphiobot- an aiding device for children with dysgraphia	Pavithra R, YashiniPriyanka, ShruthiPriya, S Sumathi	202441076819	18.10.2024	Indian	Published
21	Vertical tower farming-Aeroponics	Mr. BharathanS .Sivasaran GP. TharunkumarC Nivethida A . Ms. KeerthanaS . Ms. SuwaathaS . Mr. SudharsanS . Dr. S.Sumathi	202441076822	18.10.2024	Indian	Published
22	Rescurra - An IoT based women safety device	Ms. SAIGEETHAU 3 . Ms. SAI PREETHA V 4 . Ms. JAYASHREE S 5 . Dr. S. SUMATHI	202441063726	30.08.2024	Indian	Published
23	Smart Voice Assistant Based Hospital Companion with medicine Dispenser	1)SRI SAIRAM ENGINEERING COLLEGE,2)DR. S SUMATHI 3)MS. A HARINI 4)MS. C BUVANA 5)MS. S THEJASVI 6)MS. U ABINAYA VARSHINI	202241076695A	06.01.2023	Indian	Published
24	“Inteloperformance zo - Orthotics performance evaluation and rehabilitation system”	1)VADLAMUDI ROJA 2)Dr. S Sumathi 3)Ms. G Pooja 4)Ms. B Shervena	202341088929A	12.01.2024	Indian	Published
25	DESPERCRE DITO - A Smart Garbage System	VADLAMUDI ROJA , Dr. S Sumathi ,Ms. G Pooja Ms. B Shervena	202341088948A	12/01/2024	Indian	Published

26	Smart Vest: A smart wearable solution for enhanced care and safety in dementia patients	1)SRI SAIRAM ENGINEERING COLLEGE 2)ABIRAMI S 3)TAMILVANI A S 4)GOPIKA N 5)Dr.S.SUMATHI	202541046771 A	13.06.2025	Indian	Published
27	Portable narcotic drug detector	Sri Sairam Engineering College, Anuradha S, Sakthi Ganesh S, Monish S Dr.S.Sumathi	202541046753 A	13.06.2025	Indian	Published
28	Smart Wireless Fidelity and Charging System	Vishan A Amarnath, PrasanthGovindarajan, Srivarshan G, SumathiSokkanarayanan, MithileyshSathiyarayanan	Copyrights Number - 18784201022S069	28.10.22	Indian	Published
29	Automatic Health Machine	Divya Ganesh, VasundharadeviDhanaraj, PrasanthGovindarajan, SumathiSokkanarayanan, SharanyaRajan, MithileyshSathiyarayanan	Copyrights Number - 18784201022S052	28.10.22	Indian	Published

PROGRAMS ORGANIZED

- Workshop on “Wireless communication & Radiating system” March 03-04,2011- CSIR Grant Rs30,000/-
- Workshop on “ Recent trends in Antennas for Multi field application” May 03- 05,2012-DRDOGrant-Rs 35,000/-
- National Conference on “Advanced Communication and Computing Techniques” Mar 18-19,2013-BRNS Grant-Rs 50,000/-
- Short term Training Program on “Recent trends and Research Issues in Wireless communication”,03-08, Aug 2015- ISTE Grant-self-supporting.
- National Workshop on “Healthy long life for senior citizens”, Aug 2018-TNSCST Grant- Rs20,000/-
- 2nd Elders’ Day organized on the theme of “HEALTHY AGING THROUGH YOGA and NATUROPATHY on 4 th October 2018.

- National Conference on “Advanced Communication and Computing Techniques” NCACCT28.04.2011 – 29.04.2011
- National conference on “Emerging Trends in Communication & Information Technology”(NCETCIT) 1st &2nd March 2012.
- National Conference on “Advanced Communication and Computing Techniques” Mar 18-19,2013(BRNS Sponsored)
- National Conference on “Advanced Communication and Computing Techniques” (NCACCT’14)on 27th & 28th, March 2014.
- International Conference on Broadband and Wireless Technology (ICBWT 2016) in association with ICTACT during June, 23-24, 2016.-ISRO Bangalore Grant-Rs 50,000/-
- Value Added Course on IoT – System, Architecture & Protocols Date: 10-09- 2019 to 18-09-2019
- IETE ZONAL SEMINAR & ISF CONGRESS on “SMART ENGINEERING FOR SUSTAINABLE DEVELOPMENT” 20th – 21st September, 2019.
- Two weeks Internship program on Artificial Intelligence for II & III year students (15 members)-collaborated with SRISHTI TALENTBIZ & ORBIT SHIFTERS.
- Organizer on First International Conference for Women in Multifaceted Research (ICWMR 2021-Special Session on WISE on 8th March 2021. <http://icwmr.in/special-session/>
- Organizer on IEEE sponsored “International Conference on Smart Technologies in Computing, Electrical and Electronics “ (ICSTCEE 2020), Special Session on WISE at REVA University, Bengaluru, India from 9 to 10th October 2020
- IETE ZONAL SEMINAR & ISF CONGRESS on “Digital Innovation for Sustainable Development” scheduled on July 26 - 27,2024
- IEEE CASS INDUSTRY FORUM ON NEUROMORPHIC COMPUTING: AI -INSPIRED CHIP ARCHITECTURES on 18.12.2024

CONSULTANCY PROJECTS

S.No	Project Title	Funding Agency	Amount	Duration	Contribution
Year 2020-21					
1	Multi-functional Touch Free Hand Sanitizer Device	MIT Square Services Private Limited	Rs. 22,000/-	3 Months	International Conference Publication & patent 202041043062

2	Face Protective Gears	MIT Square Services Private Limited & Raj Square Charity Foundation	Rs. 85,000/-	2 Months	CSR Activity
3	a)AutoImpilo: Smart Automated Health Machine using IoT to Improve Telemedicine And Telehealth	MIT Square Services Private Limited	Rs 10,000/	6 Months	Registration & Joint Publication IEEEExplore,Scopus ICSTCEE & Women in Science & Engineering (WISE)
	b)PowerVolt: Wireless Charging of Mobile Devices Using Renewable Power Generation System				
4	Opportunities of Adopting AI- Powered Robotics to Tackle COVID-19	MIT Square Services Private Limited	Rs. 6,637/-	3 Months	Registration & Joint Publication IEEE Explore (COMSNETS) 2021
5	Automatic Health Machine for COVID-19 and Other Emergencies	MIT Square Services Private Limited	Rs. 6,637/-	3 Months	Registration & Joint Publication IEEE Explore (COMSNETS 2021)
6	A Wearable Apparatus to Detect and Monitor Personal Health	MIT Square Services Private Limited	Rs 18,000/-	3 Months	Filingpatent 202041027319
7	An Internet of Things (IoT) Based Airbag Apparatus	MIT Square Services Private Limited	Rs 18,000/-	3 Months	Filing Patent 202041027335.
8	Internet of Things (IoT) Based Ultraviolet (UV-C) Disinfecting and Pest Controlling Device	MIT Square Services Private Limited	Rs 18,000/-	3 Months	Filing Patent 202041039129
9	Method And Automated Health Machine For Providing Healthcare Services To Patients Using IoT	MIT Square Services Private Limited	Rs 18,000/-	3 Months	Filing Patent 202041047240
Year 2021-22					
10	Healthcare Apps for Post- COVID Era: Trends,Challenges and Potential Opportunities	MIT Square Services Private Limited	Rs. 12,500/	3 Months	Project &Publication In Scopus

11	Smart Wireless Fidelity and Charging System with In-built Internet Router	MIT Square Services Private Limited	Rs. 10,000/-	6 Months	Filing Patent June 2022, Patent Number - 366627-001
Year 2022-23					
12	IOT Based UV-C Disinfecting Device	MIT Square Services Private Limited	Rs. 10,000/-	3 Months	Design Patent Granted 17/11/22 374311-001
13	Automatic Health Machine	MIT Square Services Private Limited	Rs. 10,000/-	3 Months	Design Patent Granted 5/9/22 370395-001
14	Solar Powered IOT Enabled Sanitizer Dispenser	Raj Square Charity Foundation	Rs. 10,000/-	3 Months	Design Patent Granted 20/10/22 372909-001
Year 2023-24					
15	Design of Smart Virus Detection Kit	MIT Square Services Private Limited	Rs. 30,000/-	3 Months	Design Patent Granted India Filing No. 389942-001 UK Filing No. 6295566
16	Automatic hand sanitizer (touch-free)	Raj Square Charity Foundation	Rs. 20,000/-	3 Months	UK design patent (Filing No. 6303640).
17	Smart Wireless Fidelity and Charging System with In-built Internet Router	MIT Square Services Private Limited	Rs. 20,000/-	3 Months	UK design patent (Filing No. 6303641)
18	Design of Smart Ventilator	MIT Square Services Private Limited	Rs. 30,000/-	3 Months	Design Patent Granted India Filing No. 389934-001 UK Filing No. 6295565
19	Dementia	MIT Square Services Private Limited	Rs. 10,000/-	3 Months	IEEE Conference and Publication (Scopus-indexed).
Year 2024-25					
20	Smart Sensors for Smart City Environmental Monitoring Systems	MIT Square Services Private Limited	Rs. 20,000/-	6 Months	Publication in the Book Chapter of Science Direct, Elsevier.

PUBLICATIONS

1. Archana M., Pavithra V.K., **Sumathi Sokkanarayanan**, Prayla Shyry, Mithileysh Sathiyarayanan Jose Anand A., "Challenges and Future Directions in Quantum Sensing Technologies with Magnonics Technology", *Optical Sensors and Distributed Sensing Innovations, Techniques, and Applications*, Ch 25, pp 352-362, ISBN 9781032870496, Published December 16, 2025 by CRC Press
2. N. Nazeeya Anjum 1, S. Sumathi 1, R. Dheena Dhayalan 1, R.P. Rampavithran 1, A. Jose Anand 2, Mithileysh Sathiyarayanan 3 "Chapter 2 - Smart sensors for smart city environmental monitoring systems" *Digital Twin, Blockchain, and Sensor Networks in the Healthy and Mobile City 2025*, pages 17-33, <https://shop.elsevier.com/books/digital-twin-blockchain-and-sensor-networks-in-the-healthy-and-mobile-city/nguyen/978-0-443-34174-8>, <https://doi.org/10.1016/B978-0-443-34174-8.00003-X>
3. **Dr. S. Sumathi**, P. Rajakumar, D. Linett Sophia, A. E. Prabhu, K. Pranitha, "Revolutionizing Lung Cancer Diagnosis with Machine Learning and MATLAB", *Nanotechnology Perceptions*, Vol.20, No.S15 (2024), DOI : <https://doi.org/10.62441/nano-ntp.vi.3777>, (ISSN 1660-6795) (Scopus)
4. **Dr S. Sumathi**, A.E Prabhu, K. Pranitha, "Innovative FPGA Solutions for Volumetric Integral Based Image Compression/Decompression with Vivado HLS", *YMER is an International Open Access Journal*, ISSN : 0044-0477, VOLUME 23 : ISSUE 07 (July) - 2024,
5. **Dr. Sumathi S**, Pavithra R, Shruthi Priya T, Yashini Priyanka S, "GRAPHIBABOT-AN AIDING DEVICE FOR DYSGRAPHIA", *IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, 2024, DOI: [10.1109/ICPECTS62210.2024.10780051](https://doi.org/10.1109/ICPECTS62210.2024.10780051) (**Scopus Indexing**)
6. Yashini priyanka S, **Sumathi S**, Mangayarkarasi T, Jose Anand A and Mithileysh Sathiyarayanan, "Predicting Ventilation Needs in Intensive Care Unit", *Artificial Intelligence-Based System Models in Healthcare*, 2024, Scrivener Publishing (WILEY), ISBN:9781394242498, https://www.google.co.in/books/edition/Artificial_Intelligence_Based_System_Mod/MASnEQAAQBAJ?hl=en (**Scopus Indexing**)
7. Karthikeyan R., Dr. Hariharan Illango, Rajakumar P., **Dr. Sumathi Sokkanarayanan**, Chithrakkannan R, "Improving Medical Imaging Diagnostics by Utilizing Compression Techniques and Implementing FPGA Acceleration with Vivado HLS" *International Journal of Intelligent Systems and Applications in Engineering*, 12(21s), 1457–1463. Retrieved from <https://ijisae.org/index.php/IJISAE/article/view/5616>. (**Scopus Indexing**) ISSN: **2147-6799** impact factor 0.742(SCI)(26.3.24)
8. **Dr.S.Sumathi**, Dr.K.Sumathi, Dr.T.Mangayarkarasi, Dr.B.Panjavarnam, R. Tamezhneal, A.E Prabhu, "Exploring machine learning techniques in lung cancer detection via absolute integral-based analysis"(2024). *International Development Planning Review*, 23(1), 222-234. (**Scopus Indexing**) <https://idpr.org.uk/index.php/idpr/article/view/155>. ISSN:1474-6743 | E-ISSN:1478-3401, Q2 SJR 0.46
9. **Dr S Sumathi**, Dr S Deepa Nivethika, Naresh M, Pranyka R A, Srividhya M, "Virtual Reality Exposure Therapy for Claustrophobia and Nyctophobia" *IEEE First International Conference on Intelligent computing and control for Engineering and Business systems (ICCEBS) 2023*. DOI: [10.1109/ICCEBS58601.2023.10448573](https://doi.org/10.1109/ICCEBS58601.2023.10448573)

(Scopus Indexing)

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12. Dr. Kishore Kumar Balaji, Dr. Megha Krishnakumar, **Dr. Sumathi S**, Dr. Sharanya Rajan and Dr. Mithileysh Sathiyarayanan, "Dementia: Opportunities and Challenges of Technology-Assisted Intervention", IEEE 16th International Conference on COMmunication Systems & NETworkS (COMSNETS), 2024. <https://doi.org/10.1109/COMSNETS59351.2024.10427447> (**Scopus Indexing**)
13. **Dr. S. Sumathi**, Dr. K. Sumathi, Dr. T. Mangayarkarasi, Dr. B. Panjavarnam, A. E. Prabhu, K. Pranitha, "A Study on Typhoon Eye Extraction from Cloud Imagery using Flat Maxima Enhancement", International Journal of Innovative Science and Research Technology, Volume 8, Issue 12, December – 2023, ISSN No:-2456-2165, DOI : <https://doi.org/10.5281/zenodo.10458331> SJIF-8.223
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15. G.Pooja, vR. Deepika, B. Shervena, **Dr Sumathi S** "Intelopermanzo - Orthotics performance evaluation and rehabilitation Device", International Conference on Healthcare and Clinical Gerontology, Published by Institute for Scientific and Engineering Research, Dec 2023. Pp 51-55. International Journal of Engineering Research in Electronics and Communication Engineering, Volume no 11 Issue 1 January 2024, ISSN (Online) 2394-6849
16. Divya Ganesh, Kishore Kumar Balaji, **Sumathi Sokkanarayanan**, Sharanya Rajan, Mithileysh Sathiyarayanan, "Healthcare Apps for Post-COVID Era: Trends, Challenges and Potential Opportunities", IEEE Delhi Section Conference (DELCON) 2022. DOI: [10.1109/DELCON54057.2022.9753258](https://doi.org/10.1109/DELCON54057.2022.9753258), (**Scopus Indexing**)
17. M Duraiselvam, Gayathri S, Ranjana R, Khyathi P, **Sumathi Sokkanarayanan**, Mithileysh Sathiyarayanan, "Smart Multifunctional Vital Testing Kit for Patients", IEEE Delhi Section Conference (DELCON) 2022. DOI: [10.1109/DELCON54057.2022.9753350](https://doi.org/10.1109/DELCON54057.2022.9753350) (**Scopus Indexing**)
18. G Pooja, Deepika R, Shervena B, **Sumathi S** "Despercredito - Smart Garbage System" IEEE International Conference on Communication,

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19. Nazeeya Anjum N , **Sumathi S**, J. V. Anand and Ganesh Babu T. R. , “ Design of a Practical Miniaturized Antenna to Support IoT Applications”, Antenna Design for Narrowband IoT: Design, Analysis, and Applications, 2022, DOI: 10.4018/978-1-7998-9315-8.ISBN13: 9781799893158
20. Srinidhi Srinivasan, Rubasri Sundar, Hemavathi S, **Sumathi Sokkanarayanan**, Mithileysh Sathiyarayanan, “Face Recognition and Mask Detection Technology for Surveillance Systems”, IEEE 4th International Conference on Computing and Communications Technologies (ICCCT) 2021. DOI: [10.1109/ICCCT53315.2021.9711831](https://doi.org/10.1109/ICCCT53315.2021.9711831) (Scopus Indexing)
21. Abirami Anandasabesan, Soundarya Mahamani, Haritha Sree Soundararajan, Shanthi Natarajan, **Sumathi Sokkanarayanan**, Mithileysh Sathiyarayanan, “Work-in-Progress: Smart Automatic Regeneration of Electricity using Thermoelectric Generator Technology”, IEEE 4th International Conference on Computing and Communications Technologies (ICCCT) 2021. DOI: [10.1109/ICCCT53315.2021.9711775](https://doi.org/10.1109/ICCCT53315.2021.9711775)
22. Kajol Mohanty, Subiksha S, Kirthika S, Sujal BH, **Sumathi Sokkanarayanan**, Panjavarnam Bose, Mithileysh Sathiyarayanan, “AI-powered Robotics and Covid19: Challenges and Opportunities”, [Robotic Technologies in Biomedical and Healthcare Engineering](#) Chapter 6, CRC Press, Taylor & Francis Group, USA, 2021. eBook ISBN9781003112273
23. Kajol Mohanty, Subiksha S, Kirthika S, Sujal BH, **Sumathi Sokkanarayanan**, Panjavarnam Bose, Mithileysh Sathiyarayanan, “Opportunities of Adopting AI Powered Robotics to Tackle COVID-19”, IEEE 13th International Conference on Communication Systems & Networks (COMSNETS), 2021. DOI: [10.1109/COMSNETS51098.2021.9352866](https://doi.org/10.1109/COMSNETS51098.2021.9352866) (Scopus Indexing)
24. Divya, G, Gayathri, S, **Sumathi, S**, Panjavarnam.B, Sharanya, R, Mithileysh, S, “Automatic Health Machine for COVID-19 and Other Emergencies”, IEEE 13th International Conference on Communication Systems & Networks (COMSNETS), 2021. DOI: [10.1109/COMSNETS51098.2021.9352866](https://doi.org/10.1109/COMSNETS51098.2021.9352866). (Scopus Indexing)
25. Divya Ganesh, Gayathri Seshadri, **Sumathi Sokkanarayanan**, Panjavarnam Bose, Sharanya Rajan and Mithileysh Sathiyarayanan, “ AutoImpilo: Smart Automated Health Machine using IoT to Improve Telemedicine and Telehealth”, IEEE sponsored “International Conference on Smart Technologies in Computing, Electrical and Electronics “ (ICSTCEE 2020), REVA University, Bengaluru, India from 9 to 10th October 2020.(Scopus Indexing) [10.1109/ICSTCEE49637.2020.9277223](https://doi.org/10.1109/ICSTCEE49637.2020.9277223)
26. Sridhar Muthu, Vignesh Ravisekar, Abishek Anand Anandhan Sasimahadevi, Thirumalai Mohan, Aswin Baskaran, Vedanarayanan Sridheepa Rajagopalan, Divya Ganesh, **Sumathi Sokkanarayanan** and Mithileysh Sathiyarayanan, “ Power Volt: Wireless Charging for Mobile Devices Using Renewable Power Generation System”, IEEE sponsored “International Conference on Smart Technologies in Computing, Electrical and Electronics “ (ICSTCEE 2020), REVA University, Bengaluru, India from 9 to 10th October 2020.

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28. Sathish G, Santhosh V, Deepak S, Sri Varshan, **Sumathi Sokkanarayanan**, Mithileysh Sathiyarayanan, "Importance of Automatic Hand Sanitizers to Improve Health and Hygiene of Individuals During Pandemic", 10th International Online Conference on Impact of COVID- 19 on Local & Global Economy & Recovery Strategies, In the proceedings of Impact of COVID-19 on Education, Technology and Agriculture, June 2020, Pg. 34-44, ISBN: 978-81- 947149-7-2.(Best Research Paper)
29. Subiksha S, Kirthikka S, Kajol Mohanty, **Sumathi Sokkanarayanan**, Mithileysh Sathiyarayanan, "Mobile UV-C Sanitizer: IoT Based UV-C Disinfecting Device to Sanitize Public Places", 10th International Online Conference on Impact of COVID-19 on Local & Global Economy & Recovery Strategies, In the proceedings of Impact of COVID-19 on Manufacturing and Services, June 2020, Pg. 178-182, ISBN: 978-81- 947149-6-5
30. Shalini Gnanavel, Saranya M, Kanmani E, **Sumathi Sokkanarayanan** Mithileysh Sathiyarayanan “Quality Detection of Fresh Fruits and Vegetables to Support Horticultural and Agro-industri” IEEE Fourth International conference on contemporary Computing and Informatics (iC3I 2019),12-14 Dec 2019. (Scopus Indexing). DOI: [10.1109/IC3I46837.2019.9055558](https://doi.org/10.1109/IC3I46837.2019.9055558)
31. Balasubramaniam Anbu, Bharathwaj Krishnan, **Sumathi Sokkanarayanan**, Mithileysh Sathiyarayanan, “A Theoretical Model of IoT-based Two-Wheeler Auto-Indicator System to Advance Traffic Violation” IEEE Fourth International conference on contemporary Computing and Informatics (iC3I 2019),12-14 Dec 2019. DOI: [10.1109/IC3I46837.2019.9055708](https://doi.org/10.1109/IC3I46837.2019.9055708)(Scopus Indexing)
32. Divya Ganesh, Gayathri Seshadri, **Sumathi Sokkanarayanan**, Mithileysh Sathiyarayanan,Sharanya Rajan, “IoT-based Google Duplex Artificial Intelligence Solution for Elderly Care” IEEE Fourth International conference on contemporary Computing and Informatics (iC3I 2019),12-14 Dec 2019. DOI: [10.1109/IC3I46837.2019.9055551](https://doi.org/10.1109/IC3I46837.2019.9055551)(Scopus Indexing)
33. Mithileysh Sathiyarayanan, **Sumathi S**, “Understanding the Emergence and Importance of Block chain-based Cyber-physical Social Machines: A Proposal” IEEE Fourth International conference on contemporary Computing and Informatics (iC3I2019), 12-14 Dec 2019. DOI: [10.1109/IC3I46837.2019.9055513](https://doi.org/10.1109/IC3I46837.2019.9055513) (Scopus Indexing)
34. R Dhianeswar T Naveen Kumar N Kishore K Ashwinn S **Sumathi**. “Enhanced Ambulance Service Using Transmitter and Receiver” IEEE 3rd International Conference on Communication and Information Systems (ICCIS), 28-30 Dec. 2018 DOI: [10.1109/ICOMIS.2018.8645050](https://doi.org/10.1109/ICOMIS.2018.8645050) (Scopus Indexing)
35. R Dhianeswar M.Gowtham S **Sumathi**. “The smart trolley with automatic master follower and Billing System” International Conference on Computer Networks, Big Data and IoT (ICCBI 2018), 19& 20 December 2018. Lecture Notes on Data Engineering and Communications Technologies, Springer International Publishing. (Scopus Indexing). https://link.springer.com/chapter/10.1007/978-3-030-24643-3_92. pp 778-791.

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38. K Poornisha M R Keerthana **S. Sumathi** . “Bore well water quality and motor monitoring based on IoT gateway” IEEE International Conference on Communication, Computing and Internet of Things (IC3IoT) on 15-17 Feb. 2018 **DOI:** [10.1109/IC3IoT.2018.8668147](https://doi.org/10.1109/IC3IoT.2018.8668147) (**Scopus Indexing**)
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DOI: [10.1109/IC3IoT.2018.8668178](https://doi.org/10.1109/IC3IoT.2018.8668178) (**Scopus Indexing**)
41. C.Nivetha, **S.Sumathi**, “Retinal blood vessels extraction and detection of exudates using wavelet transform and PNN approach for the assessment of diabetic retinopathy”, IEEE International Conference on Communication and Signal Processing (ICCSP' 17), Adhiparasakthi Engineering College, Chennai, 6-8 April 2017. **DOI:** [10.1109/ICCSP.2017.8286743](https://doi.org/10.1109/ICCSP.2017.8286743) (**Scopus Indexing**)
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43. R.Tamezhneal, **Dr.S.Sumathi**, “Implementation Of Biometric Smart Card Using MultiBiometrics” IEEE International Conference on Trends in Electronics and Informatics (ICEI 2017) on 11, 12 May 2017, SCAD College of Engineering and Technology Cheranmahadevi, Tirunelveli, Tamil Nadu,ISBN: 978-1-5090-4257-9,Pp:777 – 782. (**Scopus Indexing**)
DOI: [10.1109/ICOEI.2017.8300810](https://doi.org/10.1109/ICOEI.2017.8300810)
44. **S. Sumathi**, [R. Poornima](#), [T. Haripriya](#) “Implementation of multimodal neonatal identification using Raspberry Pi 2”. [ICCIP 2016](#) Proceedings of the 2nd International Conference on Communication and Information Processing, Pages 88-92 Singapore, November 26 - 29, 2016, [ACM](#) New York, NY, USA ©2016 .**Scopus Indexing**, EI Compendex Indexing.
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46. K.Prakash, **Dr.S.Sumathi**, “Implementation of Bimodal neonatal identification using Raspberry Pi” International Conference on Adaptive Technologies for Sustainable Growth, ICATS’16, Pavai Engineering College, Namakkal, 13th and 14th May, 2016.

47. S.Sivaranjani, **S.Sumathi.**, ‘Implementation of fingerprint and newborn footprint feature extraction on raspberry pi’, IEEE and DRDO sponsored 2nd **IEEE** International conference on innovations in information, Embedded and Communication Systems (ICIIECS’15) on 19th march 2015, Department of Electronics and Communication, Karpagam College of Engineering, Coimbatore, Tamil Nadu, India. (**Scopus Indexing**)
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49. S.Sivaranjani, **S.Sumathi.**, ‘A Review on implementation of bimodal newborn authentication’, International conference **IEEE** GCCT 2015, Electronics and Communication Engineering, Noorul Islam Centre for higher Education, Nagarcoil on April 2015. (**Scopus Indexing**) DOI: [10.1109/GCCT.2015.7342664](https://doi.org/10.1109/GCCT.2015.7342664)
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56. **Sumathi S.** and Rani Hema Malini R. (2012) Multi Algorithm Approach for Face Recognition Using Average Half Face” Journal of Computer Application. Vol 5 Issue 4 Dec 2012. ISSN No: 0974-1925
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58. **S.Sumathi** , Archana, Pracitha(2012) “Palatal Rugae and Dental Work Information-Tools of Human Identification”, CIIT International Journal of Biometrics and Bioinformatics, Vol 3,No 20,June 2012. ISSN 0974 – 9675.
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67. **Sumathi S.**, Gnana Prakasam S. and Rani Hema Malini R. (2010) “Face Recognition - Average-Half-Face Using Wavelets”, International Conference on Image processing, computer Vision, & Pattern Recognition (IPCV'10) Las Vegas, USA, ISBN No 1-60132-152-X, July 12-15, Vol. 1, pp. 337-342.
68. Gnana Prakasam S **Sumathi S.**, and Rani Hema Malini R. (2010), “Average-half-face in 2D and 3D using wavelets for face recognition”, International conference on Signal processing, WSEAS, Stevens Point, Wisconsin, USA,**ACM Digital Library**, PP 107-112, ISBN: 978-954-92600-4-5. **(Scopus Indexing)**
69. S.Rajalakshmi and **S.Sumathi** “Mapping of 40 MHz MIMO SDM-OFDM Base band Processing on MultiProcessor SDR Platform” ICICT 09 Sri Sairam Engg College16-18 Dec 09.

National Conference Attended /Presented

Sl No	Title	Date	Venue/Duration
1.	Image compression in mobile multimedia services using wavelets.	Apr 2005	Bharath Institute of Higher Education And Research. Chennai.
2	Image compression in mobile multimedia services using wavelets.	Aprl 2005	Adhiyaman college of engineering,Hosur.
3	Energy Efficient wavelet for water marked video.	June 2006	Anna university,Chennai.
4	Personal authentication using multi-biometric system.	Jan 2008	St.Peter's Engineering College, Chennai.
5	Facial identification system usingPCA	Feb 2009	National Conference on " Biomedical Electronics & Biomedical Informatics ", Sponsored by DRDO, New Delhi and IETE Sri Sairam Engineering College, Chennai
6	Person Authentication using Palmprint.	Feb 2009	National Conference on " Biomedical Electronics & Biomedical Informatics ", Sponsored by DRDO, New Delhi and IETE Sri Sairam Engineering College, Chennai
7	Face recognition system usingPCA	July 2009	St.Peter's Engineering College,Chennai.
8	Average-Half-Face in 2D and 3D using Wavelets for Face Recognition.	March 19, 2010.	Vellammal Engineering college,Chennai
9	Biometric Identification Using Palm print"	29 th & 30 th April 2009	NCETETA-09 at Shiridi Sai Engg College, Bangalore
10	Average-Half-Face in 2D and 3D using Wavelets for Face Recognition	March 2010	Eswari Engineering college, Chennai
11	Multi biometric system for identification and verification	30 & 31 st July 2010.	National conference on computing concepts in current trends at Sathyabama university
12	Use of Energy Efficient Technology	25-26 Sep 2010.	53 rd IETE Annual Technical Convention. IETE, Delhi
13	Verification System in Multimodal Biometrics	28 th Feb and 1 st March.2011	National conference on Recent Advances in Communication,Electrical and Electronics and Information Technology,RACEIT-2011. IETE Chennai Centre and Prathyusha Institute of Tech and management.
14	Digital Rights management Using Multimodel Biometrics	25,26, Feb 2011.	National Conference on Signals, Systems and Technologies in media. Karunya University

15	Digital Rights management Using Face and iris features	7,8, April 2011	4 th National Conference on VLSI, Embedded systems, Signal Processing and Communication Technologies, NCVESCOM-2011. Arupadai Veedu Institute of Technology, Vinayaka Missions University
16	Highly Secure Hand based Multimodel Biometric system	7,8, April 2011	4 th National Conference on VLSI, Embedded systems, Signal Processing and Communication Technologies, NCVESCOM-2011. Arupadai Veedu Institute of Technology, Vinayaka Missions University
17	Webcam Based Multimodel Biometrics For Person Authentication	10&11, March 2011.	National Conference on Emerging Computing and Communication Technologies. NECCT 2011. Kongu Engg College
18	Highly Secure Hand based Multimodel Biometric system	29.4.2011.	National Conference on Advanced Communication and Computing Techniques.. NCACCT 2011. Sri Sairam Engineering College, Chennai
19	Biometrics based on Dental work information for identifying humans.	20,21 April 2012	National Conference on Expanding Horizon in computer, Information Technology, Telecommunication & Electronics, EXCITE 2012. IETE, Chennai Center.
20	New born Identification Using Footprint Biometrics	20,21 April 2012	National Conference on Expanding Horizon in computer, Information Technology, Telecommunication & Electronics, EXCITE 2012. IETE, Chennai Center.

Workshop/Conferences/FDP:

1. Attended National seminar on "Trends in Biomedical Instrumentation" at Shanmuga college of engineering, Thanjavur, Sep 2000.
2. Attended International conference on "Advances in telecommunications and Information Technology" at Vellore Engineering College from 14th & 15th Dec 2000.
3. Attended Short term training programme on "Computer communication & networking" conducted by TTTI, Taramani from 3.9.01 to 7.9.01
4. Attended Workshop on "Teaching technology and counseling skill" at Abirami Academy at Sri Sai Ram Engineering College on 24th Feb 2001.
5. Attended 3 Day Seminar cum Workshop on VLSI Design and Embedded System Technology at Sri Sai Ram Engineering College from 26th – 28th July 2002 .
6. Attended Workshop on "Direct to Home Technologies" conducted by Broadcast Engineering society on 9th July 2004 .
7. Attended Workshop on "Wireless & wireline communication" conducted by

Institute of Engineers & IETE society on 21st June 2004 .

8. Attended

International conference on “INCON-CCC” at Sri Sai Ram Engg college on 20th— 22nd Aug.

9. Attended UGC Sponsored Refresher Course On” MODERN MOS TECHNOLOGY_TOOLS AND DESIGN” at Sathyabama Institute of Science and Technology, Chennai. From 28.11.05 to 17.12.2005.

10. Attended TNSCST & National Council for Science and Technology Communication Sponsored National Workshop On “ADVANCES IN COMMUNICATION TECHNOLOGIES AND NETWORKS” at SSN college of Engineering, Chennai during 4th & 5th august 2006.

11. Attended seminar on “Broadcasting Emerging Technologies in mobile world” on 8.9.06 organized by Broadcasting Emerging society Chennai chapter.

12. Attended one day Workshop on ”Networks & Security ” conducted at Dept of ECE, Sri Sai Ram Engineering College and Benchmark on 22.9.06.

13. Attended Staff Development program on “Information Technology in Telemedicine & E- health” conducted at Sri Sai Ram Engineering College from 9th–21st July 2007 .

14. Attended one day Workshop on ”Emerging Trends in VLSI and ASIC Designs” conducted at Dept of ECE, Anna university. April 07.2007.

15. Attended National Conference on Advanced techniques in Instrumentation, Control & Communication Engineering at St. Peter’s Engineering College/ Jan 24th -25th 2008.

16. Attended National workshop on Recent trends in wireless information networks and systems- Sri Sai Ram Engg. College, Sponsored by DRDO Feb 1st ’08.

17. Attended National seminar on Research issues in digital image processing- Mepco Schlenk Engineering college, sivakasi. March 21st ’08

18. Attended Workshop on Intellectual property rights awareness and related issues- TCS and Patent office, Govt of India- April 30th ’08.

19. Attended Workshop on Getting started with MATLAB- Organized by Raghuram Associates held at Sri Sairam Engineering College- June 30th– July 3rd ’08

20. Attended National Conference on Biomedical Electronics and Biomedical Informatics at Sri Sairam Engineering College, Chennai/ Feb 5th & 6th '09.

21. Attended National Conference on Advanced Techniques Instrumentation “Advanced Techniques in Instrumentation Control and Communication Engineering” on 23rd July 09 at St. Peter’s University, Avadi, Chennai.

22. Attended National workshop on How to do Research at Sathyabama Institute of Science and Technology, Chennai on 7 & 8 th Aug 2009.

23. Attended National workshop on future directions in image processing & analysis at SSN Engg college on 20 & 21 Aug 09.
24. Attended seminar on "Broadcasting in Digital Era on 26.09.2009 organized by Broadcasting Emerging society Chennai chapter.
25. Attended National workshop on "Future Directions in Image Processing and Analysis" organized by Department of computer science & Engineering, SSN college of Engineering during 20-21, August 2009.
26. Attended CSIR Sponsored Faculty development program on Recent Trends in wireless information networks and systems on 7.7.10 at Sriram Engg college.
27. Attended DPT sponsored national seminar on "BIOMEDICAL SIGNAL PROCESSING USING COMPUTATIONAL INTELLIGENCE" organized by The department of ECE School of Communication and Computer Sciences OF KONGU ENGINEERING COLLEGE, Perunthurai is conducting On" on 23rd and 24th July' 2010.
28. Attended "International Conference & Exhibition On BIOMETRIC TECHNOLOGY" organized by Dept of Biomedical Engg organized by organized by PSG College of Technology, Coimbatore on 2nd - 4th, September, 2010.
29. Attended CSIR sponsored two day workshop on "Wireless communication and Radiating system" March 21 & 22, 2011, at Srisairam Engg college, Chennai.
30. Attended In-Plant Training on "Digital Image Processing" on 19th - 23rd December 2011, organized by the department TIFAC-CORE: Machine vision of RAJALAKSHMI ENGINEERING COLLEGE Thandalam, Chennai.
31. Attended one day workshop on "Art of Journal and Thesis Writing" on 19th January 2012, organized by, Department of Research and Development, Sri Sai Ram Engineering College. Chennai.
32. Attended Two day workshop on "Writing Effective conference Papers" on 18th & 19th February 2012, organized by Indian Institute of Technology, Bombay, Remote center SRM University, Chennai.
33. Attended one day workshop, Sir C.V. Raman Lecture on "Research Paper Publication in Journals" on 30th June 2012, organized by, Institute of Engineering and Technology (IET), Chennai.
34. Attended Two day workshop on "Image Processing Framework using FPGA" on 15th & 16th October 2012, organized by Madras Institute of Technology, Anna University and Enixs Technology India Pvt Ltd, Chennai.
35. Attended one day seminar on "Intel Tech Phi Drive" on 18.9.2013 at Taj Kannemara, Chennai.
36. Attended one day seminar on "NI Technical Symposium '14" on 9.9.2014 at Radisson Blue, St Thomas Mount, Chennai.
37. Attended one day seminar on "Embedded Linux on Zynq-7000 SOC using Vivado" on 18.9.2015 at VIT Chennai.
38. Attended 4 weeks FDP on "Outcome based Pedagogic principles for effective teaching"-NPTL IIT, Kanpur.
39. Attended International Workshop on "Smart Materials Sensors and Energy Devices" at SSN College of engineering on 6-8 Dec 2018.
40. Attended one day seminar on "Methodologies & Practices for profitable research through patents & IPR" at SEC on 4.1.19.
41. Attended Two Weeks Course on Recent trends in Information, Computing, Communication

and Teaching Methodology Competency at SEC on 4.05.20 to 17.05.2020

42. Attended AICTE Training and Learning Academy (ATAL) sponsored FDP on “Telemedicine” at RMK Engg College on 14.9.20 to 18.9.20
43. Attended AICTE Training and Learning Academy (ATAL) sponsored FDP on “Artificial Intelligence” at SEC on 07.12.2020 to 11.12.2020.
44. Attended a FDP on Get Ready for AI with MATLAB and Simulink on 18.6.2020 TO 20.6.2020
45. Attended 2020 IEEE EMBS International workshop on Wearable sensors and devices, Artificial Intelligence and wearable markets (WSAIM) on 18.11.2020 & 19.11.2020
46. Attended AICTE Training and Learning Academy (ATAL) sponsored FDP on Design Thinking" from 2021-1-4 to 2021-1-8 at C. V. Raman Global University (Formerly C. V. Raman College of Engineering) Bhubaneswar.
47. Attended AICTE Training And Learning (ATAL) Academy Online FDP on "Wearable Devices" from 2021-1-18 to 2021-1-22 at University Visvesvaraya College of Engineering.
48. Attended AICTE Training And Learning (ATAL) Academy Online FDP on "Medical Image Processing and 3D Applications" from 2021-7-05 to 2021-7-09 at University College of Engineering.
49. Attended a FDP on “ Artificial Intelligence in Healthcare” organized by ISTE, Dept of IT SEC on 21.2.22 to 25.2.22.
50. Attended a FDP on “EXPLORING AUGMENTED REALITY/VIRTUAL REALITY USING UNITY TOOL” organized by Computer Society of India, Dept of CSE SIT on 11.7.22 to 15.7.22.
51. Attended a FDP on “Wearable Technology” in Healthcare held during 15-17 November 2023 organized by Department of Embedded Technology & Dept. of Sensor and Biomedical Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu.
52. Attended a FDP on “ Introduction to Industry 4.0 and Industrial Internet of Things” organized by NPTEL-AICTE
53. Attended a FDP on “Future Direction in Image Processing” on 30.10.23 to 4.11.23

Awards and Accomplishments

1. As an IETE coordinator, received **Best ISF award** consecutively for last 8 years 2017, 2018 & 2019, 2020, 2021, 2022, 2023, 2024, (Based on Membership, Activities and Student Achievements)
2. Received **Best ISF (IETE Student Forum) coordinator award** consecutively for last 5 years 2017-18, 2018-19, 2019-20, 2020-21, 2021-22, 2022-23.
3. Received SEEE (Society for Engineering Education Enrichment) Awards 2020 under the category "**Dr.A.P.J ABDUL KALAM AWARD FOR INNOVATIVE RESEARCH**"
4. Receiving fund from AICTE, / UGC / DST/ TNSCST, etc for organizing various workshops, Seminars, STTP, Value added course, National conference and International conference.
5. Completed 6 consultancy projects.
6. Visited NUS, NTU & AMITY University at Singapore for attending International Conference.
7. Guiding more than 50 UG & PG project batches.
8. Mentoring on Healthcare projects, such as IoT Based Smart Ventilator, Smart virus test kit, IoT based Airbag to prevent Knee fracture.
9. Mentoring on Autonomous Under water vehicle. Form a team and get a guidance from various resource such as IIITM, NIOT, and team got short listed for Singapore Autonomous under water vehicle contest. <http://www.varunatriton.org/>
10. Act as a Mentor of Change, Assigned by AIM, NITI AAYOG at SHREE NIKETAN MATRICULATION HIGHER SECONDARY SCHOOL , TIRUVALLUR

11. To create awareness to the younger generation in the theme of Engineers for Elders. Based on the above objective, organized 2 events associated with Dr V.S.Natarajan Geriatric Foundation. “HEALTHY LONG LIFE FOR SENIOR CITIZENS” & “HEALTHY AGING THROUGH YOGA and NATUROPATHY” and also encourage students to do projects in eldercare.
12. Engagement with outside world-As a Key note Speaker, Editor, Reviewer, Technical committee member, Chairperson, Organizer for National & International conferences.



தீர்க்கக்கூடிய உபகரணங்கள் மற்றும் அவசர ஆபத்து நேரங்களில் பயன்படும் உபகரணங்கள் பற்றி இளைய பொறியாளர்கள் ஆராய்ச்சி செய்யலாம்” என்று கூறினார்.

இதைத் தொடர்ந்து சாய்ராம் பொறியியல் கல்லூரியும், டாக்டர் வி.எஸ்.நடராசன் முதியோர் நல அறக்கட்டளையும் இணைந்து ‘முதியோருக்கு வேண்டிய உபகரணங்களை தயாரிப்பது’ பற்றிய புரிந்துணர்வு ஒப்பந்தம் ஒன்றில் கையெழுத்திட்டன. எனது உரையைக் கேட்டு பல மாணவர்கள், முதியோர்களுக்கு உதவும் உபகரணங்களைச் செய்து வருகிறார்கள். அவற்றில் சில பற்றி இங்கே...

கீழே விழுதலைக் கண்காணிக்கும் கருவி:

பெரும்பாலான வீடுகளில் ஆண்களைப் போலவே பெண்களும் பணிக்குச் செல்லும் காலகட்டத்தில் வாழ்ந்து வருகிறோம். இதனால் முதியோர்கள் வீட்டில் தனித்திருக்கும் சூழ்நிலை உருவாகியுள்ளது. இப்படிப்பட்ட தனிமையில், ‘பாத்ரூமில் வழக்கி விழுவதே’, உயிருக்கு ஆபத்தான விபத்தாகி விடுகிறது. இப்படிக் குளியலறையில் மயங்கி விழும் முதியவர்களுக்கு தக்க தருணத்தில் உதவி கிட்டினால், பெரும் பாதிப்பைத் தவிர்க்கலாம். ஆனால், குளியலறையில் சி.சி.டி.வி வைத்து கண்காணிக்க இயலாது.

இந்தக் கருவி அதே பணியை வித்தியாசமாகச் செய்கிறது. குளியலறை தரையில் ஒரு சென்சார் பொருத்தப்படும். ஒருவர் தரையின் மீது நடக்கும்போதோ, அல்லது விழுந்துவிட்டாலோ, அதனால் ஏற்படும் அழுத்தத்தின் உதவியுடன் கண்காணிக்கும் கருவி இது. கீழே விழுந்து சிறிது நேரமாக எந்த ஓர் அசைவும் இல்லையென்றால், முதியோருக்கு நெருங்கிய உறவினருக்கு ஒரு குறுஞ்செய்தியை இது அனுப்பும். இதனால் தேவையான உதவி கிடைக்கும். முதியோர்களுக்கும் ‘தாங்கள் கண்காணிக்கப்படுகிறோம்’ என்ற உணர்வு எழாது. ஆனால், எந்த இடத்திலும், எத்தகைய விழும் சூழ்நிலையிலும் இது செயல்படும்.

முதியோருக்கான காற்றுப் பை கருவி (ஏர் பேக்):

திரென கீழே விழுந்து எலும்புமுறிவு போன்ற பிரச்சனைகளை சந்திக்கும் முதியோருக்கான கருவி இது. கீழே விழுவதை முன்னரே யூகித்து, ஒரு காற்றுப் பையை (ஏர் பேக்) விரிவடையச் செய்து முழங்கால் மற்றும் இடுப்புப் பகுதி காயமடைவதைத் தடுக்கும். கீழே விழுவதை முன்கூட்டியே அறிவதற்கு உடல் இயக்கக் கண்காணிப்பு சென்சார் உபயோகிக்கப்படும். கீழே விழும் தருணத்தை, அல்லது தடுமாற்றத்தை, அசாதாரணமான உடலியக்கமாகக் கருதி, மில்லி விநாடிகளில் காற்றுப் பை விரிவடைந்து காக்கும். இது மூட்டு மற்றும் இடுப்பில் காயம் ஏற்படுவதையும், எலும்பு முறிவையும் தடுக்கும். இது குறைந்த எடையிலானது. எந்த சூழலிலும் செயல்படும்.

(இந்தக் கருவியை உருவாக்கியவர்கள்: நிகிதா, ரேணுகா தேவி, நந்தினி.)

கைநடுக்கத்தைத் தடுக்கும் கருவி:

கைநடுக்கம் என்பது பார்க்கின்சன்ஸ் நோயின் முக்கிய அறிகுறியாகும். இந்த நடுக்கத்தைத் தடுப்பதற்காக தற்போது பயன்பாட்டில் உள்ள நடுக்கக் கட்டுப்பாடு கருவிகள் அனைத்துமே, முழங்கை மற்றும் மணிக்கட்டு நடுக்கத்தைத் தடுப்பதற்கு மட்டுமே உதவும். விரல் நடுக்கத்தைத் தவிர்ப்பதற்கு எந்தக் கருவியும் இல்லை. இதைக் கருத்தில் கொண்டு ஒரு கருவியை உருவாக்குவதற்கு திட்டம் வரையறுக்கப்பட்டது. இதை அணிந்துகொண்டு எதையும் நடுக்கமின்றி விரல்களால் பிடிக்கலாம், வேலைகளையும் செய்யலாம். இதன் விலையும் மலிவுதான்.

(இந்தக் கருவியை உருவாக்கியவர்கள்: ஸ்ரீநிதி, வைஷ்ணவி, விஷாலினி)

மேற்கண்ட கருவிகளை உருவாக்க உதவிய பேராசிரியை திருமதி. சொ.கமதி, திருமதி. பா.தனுஜா மற்றும் மாணவர்களுக்கு எங்களது அறக்கட்டளையின் சார்பாக நன்றியைத் தெரிவித்துக் கொள்கிறோம்.

(பயணம் தொடரும்...)

ISF AWARD

Best Centre IETE ISF Forum –First Prize for outstanding and exemplary contribution towards conducting Technical Lecture meetings, Workshops, Students awards in various events Paper Presentation, National & International Conference Inplant training and Industrial Visit. This award is given by IETE, Chennai Centre.



THE INSTITUTION OF ELECTRONICS AND
TELECOMMUNICATION ENGINEERS



IETE STUDENTS' FORUM CERTIFICATE

This certificate is awarded to Sri Sairam Engineering College for standing Fourth amongst the South Zone IETE Students' Forum within the jurisdiction of Chennai Centre for the year 2023-24.

IETE also places its appreciation on record for the guidance, mentoring and leadership of the following:-

<i>Dr J Raja</i>	-	<i>Head of the Institute</i>
<i>Dr S Sumathi</i>	-	<i>ISF Co-ordinator</i>
<i>Dr D Vijendra Babu</i>	-	<i>ISF Mentor</i>
<i>Shri N. Sridharan</i>	-	<i>Centre Chairman</i>



Tranche
23-24 March 2025


Sunil
President


Brig Arun Sehgal (Retd)
Secretary General

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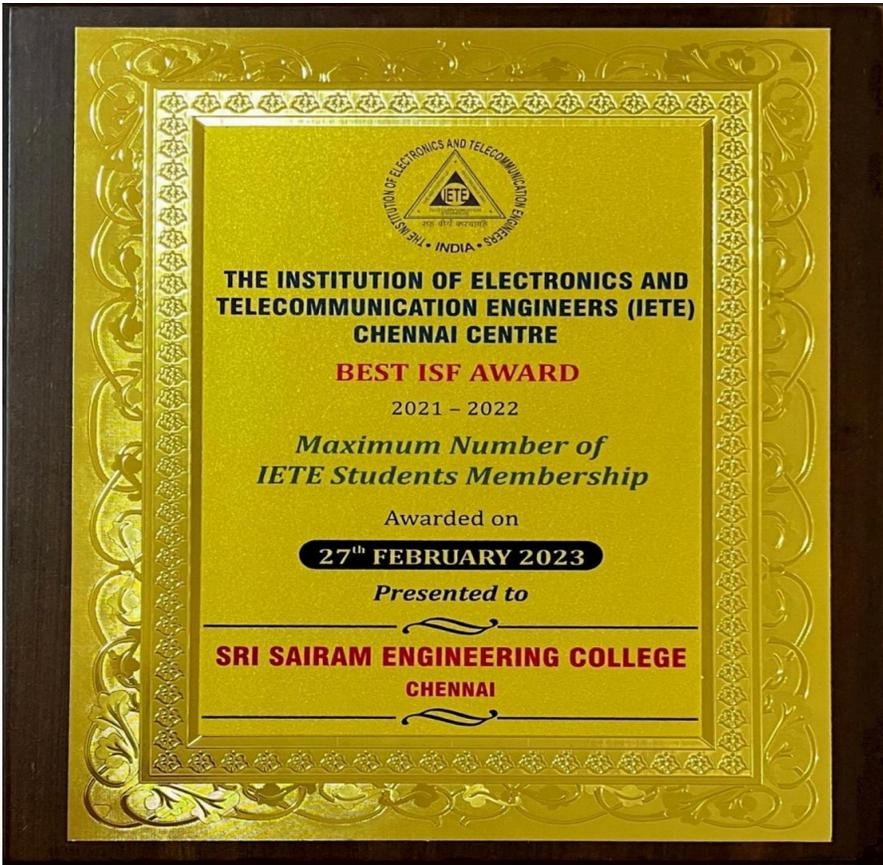


Best ISFs under the jurisdiction of Chennai Centre in 2023-2024





Best ISFs under the jurisdiction of Chennai Centre in 2022-2023



Best ISFs under the jurisdiction of Chennai Centre in 2021-2022



Best ISFs under the jurisdiction of Chennai Centre in 2020-2021.



Best ISFs under the jurisdiction of Chennai Centre in 2019-2020.



Best ISFs under the jurisdiction of Chennai Centre in 2018-2019.



Best ISFs under the jurisdiction of Chennai centre in 2017-2018.



Best ISFs under the jurisdiction of Chennai centre in 2016-2017.



Best ISFs under the jurisdiction of Chennai Centre in 2011-2012.



Best ISFs under the jurisdiction of Chennai Centre in 2010-2011.

Received the Best ISF Co-Ordinator Award.Received the **Best ISF Co-Ordinator Award** consecutively for the last 8 years 2016-17, 2017-18, 2018-19, 2019- 20, 2020-21, 2021-22,2022-23,2023-24 for organizing technical events and promoting the IETE activities in the college. This award is given by IETE, Chennai Centre.



Visited AMITY University, Singapore on IEEE Fourth International conference on contemporary Computing and Informatics (iC3I 2019),12-14 Dec 2019.



VISITED NATIONAL UNIVERSITY SINGAPORE

Visited Nanyang Technological University, Singapore on 26 th Nov, 2016 to attend the 2nd International Conference on Communication and Information Processing (ICCIP 2016) and presented the paper titled “Implementation of Multimodal Neonatal Identification using Raspberry Pi 2”.



2016 2nd International Conference on Communication and Information Processing (ICCIP 2016)



