

Faculty Profile



Dr. T. JAYA , M.E., Ph.D
Professor – ECE Department

HIGHLIGHTS:

- Number of Journal Publications:**75**
- H-Index:**11**
- Project Funding Received:nil
- Patents Published: 07
- Patents Granted: 02

PROFESSIONAL LINKS:

- Scopus ID: [56578413300](https://www.scopus.com/authid/detail.uri?authorId=56578413300)
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=56578413300>
- Google Scholar ID: <https://scholar.google.com/citations?hl=en&user=oVmpUEkAAAAJ>
 - Anna University Faculty ID: 267074
 - AICTE Faculty ID:1442118777
 - Anna University Supervisor ID: 2640049
 - LinkedIn:

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 29 yrs
- Industrial Experience: 09 Months

INTERNATIONAL EXPOSURE:

Reviewer of NCRRAC'24 SRMIST.

Reviewer of Journal of Scientific Iranica.

AREA OF SPECIALIZATION:

- Image Processing
- Opto Device
- Network

Ph.Ds AWARDED WITH DETAILS:

S:No	Name of Scholar	Title of Thesis	Year of Completion	Full Time/Part Time
1.	Rajesh D	SECURED CH BASED ROUTING SCHEME FOR MOBILE WIRELESS SENSOR NETWORK	24.12.2021	Part Time
2.	Akin Sherly L T	IMPROVED FIREFLY BASED CONVOLUTIONAL NEURAL NETWORK FOR SCENE CHARACTER RECOGNITION USING BISA ALGORITHM	06.06.2022	Part Time
3.	Arul Edwin Raj A	BREAST CANCER ANALYSIS USING COLOR CORRECTION METHODS ON THERMAL IMAGES	17.06.2022	Part Time
4.	JerishaLiby J	INVESTIGATIONS AND ANALYSIS OF DATA HIDING TECHNIQUES IN VIDEO WATERMARKING	18.07.2022	Part Time
5.	Ajitha C	INVESTIGATIONS OF COMPUTATIONAL COMPLEXITY AND BER ANALYSIS OF MULTICARRIER WAVEFORMS	26.10.2022	Part Time
6.	Jerusha D	A SECURE AND EFFICIENT LIGHT WEIGHT ENCRYPTION ALGORITHM WITH T-SNE	05.01.2023	Part Time
7.	Aashmi R S	THE MODELLING OF DETECTION FRAMEWORK FOR PREVENTION OF ATTACKS IN CLOUD COMPUTING USING FEDERATED LEARNING	22.05.2023	Part Time
8.	Saranya A K S	EARLY DIAGNOSIS OF HEART FAILURE WITH ACCURATE HEART RATE ESTIMATION	10.11.2023	Part Time
9.	ShamijaSherryl R M R	AUTOMATIC DETECTION OF KIDNEY LESIONS USING IED-ResUNet ARCHITECTURE	19.01.2024	Part Time

10	Anuja Angel M	DETERMINING ROUTING ISSUES AND DESIGNING ROUTING PROTOCOLS FOR WIRELESS SENSOR NETWORKS	18.06.2024	Part Time
11.	BinnyJebaDurai D	AUTOMATED DIABETIC RETINOPATHY CLASSIFICATION AND SEVERITY GRADING USING ADVANCED NEURAL NETWORKS	19.11.2024	Part Time
12.	JaculinFemil J	A Novel Method for classifying Melanocytic Tumors	08.01.2025	Part Time
13	Mary Little Flower T	SPEECH EMOTION RECOGNITION BY RAMANUJAN FOURIER TRANSFORM AND CONCATENATED ONE-DIMENSIONAL CONVOLUTIONAL NEURAL NETWORK	15.04.2025	Part Time

Ph.Ds GUIDING:

- Full Time Scholars: 03
- Part Time Scholars : 07

24/10/2026, 09:21

Scholars-Report

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Centre For Research
ANNA UNIVERSITY, CHENNAI



NOTE :

SCHOLAR DETAILS							
S.NO	REGNO	NAME	DEGREE	FACULTY	REG YEAR	REG SESS	SUPERVISOR
1	24244991150	Maradona N	Ph.D.	Ice	2024	JAN	Supervisor
2	22244897237	Sree Thayanandeswari C S	Ph.D.	Ece	2022	JUL	Supervisor
3	21244897693	Anisha N	Ph.D.	Ice	2021	JUL	Supervisor
4	23249897458	Juliet Rose D B	Ph.D.	Ece	2023	JUL	Supervisor
5	24144991117	Brajith Kumar G	Ph.D.	Ice	2024	JAN	Supervisor
6	24144991132	Ramesh D	Ph.D.	Ice	2024	JAN	Supervisor
7	24244997261	Aarthy Amsalekha Sivakami S	Ph.D.	Ice	2024	JUL	Supervisor
8	25244991202	Ashmin Ruby J M	Ph.D.	Ice	2025	JAN	Supervisor
9	25244997286	Paul T Jaba	Ph.D.	Ice	2025	JUL	Supervisor
10	26144997207	James Raj Y L	Ph.D.	Ice	2026	JUL	Supervisor

- List of refereed Journals as listed in Annexure I/II of Anna University website: **ATTACHED ANNEXURE I/II**

Sl. No.	Author's	Title of the Paper	Name of the Journal	URL of the Journal Home Page	Volume No, Issue No & Pages From-To	Year of Publication	IF	ISSN No.	DOI No.	Sl. No. Annex I/I
1	Jaya, T.; Sree Thayana ndeswari, C.S	Optimized anomaly detection for soil health monitoring using a cosine sculptor efficient pyramid network	Discover Computing	https://link.springer.com/article/10.1007/s10791-026-10039-7#citeas	29/192	2026	1.9	29482992	https://doi.org/10.1007/s10791-026-10039-7	7234
2	T. Jaya; N. Maradonna	Multipath routing and intrusion detection in mobile ad hoc network using hybrid optimization-based deep maxout network	Wireless Networks	https://link.springer.com/article/10.1007/s11276-026-04094-7	32/1033–1055	2026	2.5	1572-8196	https://doi.org/10.1007/s11276-026-04094-7	9015
3	T. Jaya; N. Maradonna	Secretary Bird Red Panda Optimization Enabled EfficientNet for Intrusion Detection With Multipath Routing in Mobile Ad Hoc	International Journal of Communication Systems	https://onlinelibrary.wiley.com/doi/10.1002/dac.70205	38/15	2025	1.8 [1] [2]	1099-1131	https://doi.org/10.1002/dac.70205	7291

		Networks								
4	T. Jaya & T. Mary Little Flower	Data augmentation using a 1D-CNN model with MFCC/MFMC features for speech emotion recognition	Automatika	https://www.tandfonline.com/doi/full/10.1080/00051144.2024.2371249	1325-1338		1.6	00051144	https://doi.org/10.1080/00051144.2024.2371249	6312
5	T. Jaya & D. Binny Jeba Durai	Hybrid model of feature-driven modular neural network–based grasshopper optimization algorithm for diabetic retinopathy classification using fundus images	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	https://link.springer.com/article/10.1007/s11517-025-03307-z	63/2423–2436	2025	5.1	01400118	10.1007/s11517-025-03307-z	8206
6	T. Jaya & T. Mary Little Flower	A novel concatenated 1D-CNN model for speech emotion recognition	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	https://www.sciencedirect.com/science/article/abs/pii/S1746809424002593?via=ihub	93/106201	2024	5.1	1746-8094/1746-8108	https://doi.org/10.1016/j.bspc.2024.106201	3303
7	T. Jaya & D. Binny Jeba Durai	Automatic severity grade classification of diabetic retinopathy using deformable ladder Bi attention U-net and deep adaptive CNN	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING	https://www.scopus.com/sourceid/17979?origin=resultslist	61(8) / 2091–2113	2023,	3.2	0140-0118/1741-0444	https://link.springer.com/article/10.1007/s11517-023-02860-9	8206
8	Jaya T, & Shamija Sherryl R.M.R..	Semantic Multiclass Segmentation and Classification of Kidney Lesions	NEURAL PROCESSING LETTERS	https://link.springer.com/journal/11063	55/2/1975–1992	2023	3.1	1370-4621/1573-773X	https://doi.org/10.1007/s11063-022-11034-x	8314

9	T. Jaya & T. Mary Little Flower a	Speech emotion recognition using Ramanujan Fourier Transform	<i>Applied Acoustics</i>	https://www.sciencedirect.com/journal/applied-acoustics	201/2022	2022	3.4	0003-682X/1872-910X	https://doi.org/10.1016/j.apacoust.2022.109133	301
10	T. Jaya & Jerisha Liby, J.	Advanced reversible stenographic method for image and video frames by adapting dual tree complex wavelet transform and chaotic whale optimization algorithm	CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE	https://onlinelibrary.wiley.com/journal/15320634	35(22), e7719	2023	1.831.	1532-0626/1532-0634	https://doi.org/10.1002/cpe.7719	6646
11	T. Jaya & Jerisha Liby, J.	HSV model based data hiding in video for watermark applications	JOURNAL OF INTELLIGENT & FUZZY SYSTEMS	https://www.iospress.com/catalog/journals/journal-of-intelligent-fuzzy-systems	41(2), 2731-2742	2022	2	1064-1246/1875-8967	10.3233/JIFS-202410754	10754
12	T. Jaya, . Arul Edwin Raj; M. Sundaram ;	Advanced Framework for Effective Denoising the Enhanced Thermal Breast Image	ETE JOURNAL OF RESEARCH	https://www.tandfonline.com/journals/tijr20	69/1/59-72	2021	3.1	0377-2063 / 0974-780X	https://doi.org/10.1080/03772063.2021.1898481	10237
13	T. Jaya, Rajesh D.	Energy competent cluster-based secured CH routing EC ² SR protocol for mobile wireless sensor network	CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE	https://onlinelibrary.wiley.com/journal/15320634	35(22), e7719	2022	1.831.	1532-0626/1532-0634	https://doi.org/10.1002/cpe.6525	6646
14	T. Jaya, L. T. Akin Sherly	An efficient indoor scene character recognition using Bayesian interactive search algorithm-based adaboost-CNN classifier	NEURAL COMPUTING & APPLICATIONS	https://link.springer.com/journal/521	33/15345-15356	2021	6.0	0941-0643/1433-3058	10.1007/s00521-021-06161-w	5273

15	T. Jaya, L. T. Akin Sherly	Improved firefly algorithm-based optimized convolution neural network for scene character recognition	SIGNAL IMAGE AND VIDEO PROCESSING	https://link.springer.com/journal/11760	15/885-893	2021	2.3	1863-1703/1863-1711	https://doi.org/10.1007/s11760-020-01810-4	11829
16	T. Jaya, Arul Edwin Raj; M. Sundaram ;	Thermography based breast cancer detection using self-adaptive gray level histogram equalization color enhancement method	INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY	https://onlinelibrary.wiley.com/journal/10981098	31/2/854-873	2020	3.3	0899-9457/1098-1098	https://doi.org/10.1002/ima.22488	7323
17	T. Jaya, C. Ajitha	Cognitive radio technology with reduced PAPR and complexity for IoT-based OFDM networks	PEER-TO-PEER NETWORKING AND APPLICATIONS	https://link.springer.com/journal/12083	13/20165-2077	2020	4.2	1936-6442/1936-6450	https://doi.org/10.1007/s12083-019-00820-5	5425
18	T. Jaya & Jerisha Liby, J.	Data Hiding Scheme for Video Watermarking Using Horizontal and Vertical Coefficients of Single Level Discrete Wavelet Transform Method	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	https://www.worldscientific.com/worldscinet/jcsc	31/03, 2250044	2022	1.5	0218-1266/1793-6454	https://doi.org/10.1142/S02181266250044X	10603
19	T. Jaya, J. Dheeba	Breast cancer risk assessment and diagnosis model using fuzzy support vector machine based expert system	JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE	https://www.tandfonline.com/journals/teta20	29/5/1011-1021	2017	5.9	0952-813X/1362-3079	https://doi.org/10.1080/0952813x.2017.1280088	7683

20	T. Jaya, J. Dheeb Dheeba	Detection of Hard Exudates in Colour Fundus Images Using Fuzzy Support Vector Machine-Based Expert System	JOURNAL OF DIGITAL IMAGING	https://link.springer.com/journal/10278	28/761-768	2015	5.4	0897-1889/1618-727X	https://doi.org/10.1007/s10278-015-9793-5	4620
21	T. Jaya, Shamija Sherryl R. M. R	Multi-Scale and Spatial Information Extraction for Kidney Tumor Segmentation: A Contextual Deformable Attention and Edge-Enhanced U-Net.	JOURNAL OF DIGITAL IMAGING /Journal Of Imaging Informatics In Medicine	https://link.springer.com/journal/10278	28/761-768	2023	5.4	0897-1889/1618-727X	https://doi.org/10.1007/s10278-023-00900-2	4620
22	T. Jaya, A. K. S. Saranya	CIOT-BASED EARLY DIAGNOSIS OF HEART FAILURE FROM MULTIMODAL DATA USING CHI-SQUARE-B ASED DEEP NEURAL CLASSIFIER	INTERNATIO NAL JOURNAL OF ROBOTICS & AUTOMATIO N	https://www.actapress.com/Content_of_Journal.aspx?journalID=62	http://dx.doi.org/10.2316/J.2024.206-0915	2024	1	1925-7090/0826-8185	http://dx.doi.org/10.2316/J.2024.206-0915	10426
23	T. Jaya, Preethi, M. Sabitha	Wall-Cor Net: wall color replacement via Clifford chance-based deep generative adversarial network	<i>Signal, Image and Video Processing</i>	10.1007/s11760-024-03054-y	18, 115, 4075-4084	2024	2	18631703	10.1007/s11760-024-03054-y	11828
24	T. Jaya, T. Mary Little Flower	A novel concatenated 1D-CNN model for speech emotion recognition	<i>Biomedical Signal Processing and Control</i>	https://www.sciencedirect.com/science/article/abs/pii/S1746809424002593	93/24	2024	4.9	17468094	10.1016/j.bspc.2024.106201	3303
25	T. Jaya, T. Mary	Data augmentation	AUTOMATIK A	https://www.tandfonline.com/journal/tandf	65/4	2024	1.7	00051144	https://doi.org/10.1080/00051144.2024.106201	6312

	Little Flower	using a 1D-CNN model with MFCC/MFMC features for speech emotion recognition		online.com/doi/full/10.1080/00051144.2024.2371249					024.2371249	
26	Jaya T, Aarthy Amsalekha Sivakami S	Enhancing Obesity Prediction Accuracy Using Support Vector Machine	ANADOLU PSIKIYATRİ DERGİSİ-ANATOLIAN JOURNAL OF PSYCHIATRY	https://doi.org/10.5281/zenodo.1391288	25/5	2024	1	1302-6631	https://doi.org/10.5281/zenodo.1391288	9213
27	T. Jaya; B. Bommy	Design and fabrication of rGO supported cobalt ferrite hybrid sensor for ultrasensitive detection of testosterone	Ionics	https://doi.org/10.1007/s11581-025-06069-8	31/2953-2968	2024	2.4	2587-1366	https://doi.org/10.1007/s11581-025-06069-8	7413
PUBLISHED IN UGC/SCI/SJR/OTHER INDEXED JOURNAL										
28	Jaya, T, Padmajothi, V.	Liver cancer detection using butterfly optimised strip dilated convolutional neural network	Australian Journal of Electrical and Electronics Engineering	https://www.tandfonline.com/doi/full/10.1080/1448837X.2025.2515304	2515304	2025	2.05	1448-837X	https://doi.org/10.1080/1448837X.2025.2515304	
29	Jaya T, Juliet Rose D	LDMO: Hybrid Lemurdash; Dwarf Mongoose Optimisation Framework for Multi-Objective Application Mapping In 3D-NoC	AUT Journal of Electrical Engineering	https://eej.aut.ac.ir/article_6043.html	58/623-644	2026	0.51	2588-2929	https://doi.org/10.22060/eej.2026.25052.5827	
30	T. Jaya & T. Mary Little Flower	EEG-Based Emotion Recognition: A Systematic Review of	Premier Journal of Science	https://premier-science.com/pjs-25-1257/	5-1257/	2025	1.71	3049-9011	https://doi.org/10.70389/pjs.100252	

		Traditional and Deep Learning Methods								
31	T. Jaya & T. Mary Little Flower	AI-Driven Robotics has Optimized Motion Control, Decision-Making, and Real-Time Adaptability in Minimally Invasive Surgeries: A Systematic Review	Premier Journal of Science	https://premier-science.com/pjs-25-1259/	25-1259/	2025	1.71	3049-9011	https://doi.org/10.70389/pjs.100252	
32	T. Jaya, Ramesh D.	Scalable Multi-Clustering Aggregation Scheme in WSN Using Machine Learning	<i>Turkish Journal of Engineering</i>	https://dergipark.org.tr/en/pub/tuje/issue/90064/1488192	9/1/103 - 115,	2025	1.2	2587-1366	https://doi.org/10.31127/tuje.1488192	
24	T. Jaya, Rajesh D.	ECIGC-MWSN: Energy capable information gathering in clustered secured CH based routing in MWSN	<i>Materials Today: Proceedings</i>	https://www.sciencedirect.com/journal/materials-today-proceedings/about/insights	43/6/3457-3462	2021	3.2	2214-7853	https://doi.org/10.1016/j.matpr.2020.09.100	-
33	T. Jaya, C. Ajitha	Field Programmable Gate Arrays (FPGA) Based Computational Complexity Analysis of Multicarrier Waveforms	Intelligent Automation & Soft Computing	https://www.techscience.com/journal/iasc	34(2), 1033-1048	2022	3	1079-8587/2326-005X	https://doi.org/10.32604/iasc.2022.021984	-
34	T. Jaya, D. Jerusha	Cryptographic Lightweight Encryption Algorithm with Dimensionality Reduction in Edge	<i>Computer Systems Science and Engineering</i>	https://www.techscience.com/journal/csse	42(3), 1121-1132	2022	2.7	0267-6192	https://doi.org/10.32604/csse.2022.022997	-

		Computing								
35	T. Jaya, Rajesh D.	A Mathematical Model for Energy Efficient Secured CH Clustering Protocol for Mobile Wireless Sensor Network	Wireless Personal Communications	https://link.springer.com/journal/11277	112, 421–438	2020	2.2	1572-834X/0929-6212	https://doi.org/10.1007/s11277-020-07036-4	-
36	Jaya T, M.A. Angel	Emperor Penguin Optimization Algorithm for Secure Energy Efficient Load Balancing in Wireless Sensor Networks.	Wireless Communication	https://link.springer.com/journal/11277	125, 212–217	2022	2.2	1572-834X/0929-6212	https://doi.org/10.1007/s11277-022-09647-5	-
SPONSORED RESEARCH / FUNDING APPLIED/CONSULTANCY: Research proposal submitted to the Department of Health Research for early detection of skin cancer.										
PATENTS PUBLISHED/GRANTED: - PUBLISHED - AI Powered IoT Based Soil Health monitoring System										
37	T. Jaya, R. S. Aashmi	Design and Implementation of a Machine Learning-based Intelligent Prevention using IoT Technologies Attacks in Cloud Computing Using Hybrid Algorithm ML Based Elderly Support System for Independence in Daily Life	Computer Science and Engineering	https://www.techscience.com/journal/iasc	45(1), 79–95	2023	2.7	1572-834X/26-00524291	https://doi.org/10.32604/iasc.2023.024291	-
38	T. Jaya, A. K. S. Saranya	Early Detection of Heartbeat from Multimodal Data Using RPA Learning with KDNN-SAE Embedded controller powered water quality Assessment unit	Computer Science and Engineering	https://www.techscience.com/journal/csse	45(1), 545–562	2023	2.7	0267-6192	https://doi.org/10.32604/csse.2023.029975	-
39	T. Jaya, R. S. Aashmi	Intrusion Detection Using Federated Learning for Computing	Computer Science and Engineering	https://www.techscience.com/journal/csse	45(2), 1295–1308	2023	2.7	0267-6192	https://doi.org/10.32604/csse.2023.027216	-
40	Received and Office Memorandum from Institute of Technology	Received and Office Memorandum from Institute of Technology	Computer Science and Engineering	IEEE Madras Section	2023	2.1	0267-6192	https://doi.org/10.32604/csse.2023.032935	-	
41	Rajesh D. Marwaha	Session chair for international conference on Emerging Trends in Engineering and Management (ETEM) held on 10 th June 2022 at PET	Computer Science and Engineering	IEEE Madras Section	2023	2.1	0267-6192	https://doi.org/10.32604/csse.2023.032935	-	

- keynote speaker on 8TH IEEE Sponsored International Conference on Science, Technology, Engineering and Mathematics April 6, 2023- April 7, 2023., at Jeppiaar Engineering College, Chennai
- Chief Guest for National Level Technical Symposium –UNIMATE 2023 at Annai Vailankanni College of Engineering
- Session Chair for “9th IEEE Sponsored International Conference on Science, Technology Engineering and Mathematics” at Jeppier Engineering College, Chennai, April 2024.
- Session Chair for “2nd International Conference on Advanced Technology in Engineering & Management-ICATEM-2024, Dubai March 18-25 2024.
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SPECIAL SESSIONS DELIVERED:

- National Level Technical Symposium –UNIMATE 2023 at Annai Vailankanni College of Engineering
- "Security in Wireless Communication "at Alagappa Chettiar Government College of Engineering & Technology, on 15.06.2024.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Participated in the Five days FDP on ‘Clinical Intelligence :Exploration and Computation with AI tools’ at Mepco Schlenk Engineering College from 3rd to 07th, June 2024
- Participated in the Five days FDP on ‘The Art & Science of Generative AI’ 8th - 12th, July 2024
- Participated in the Five days FDP - RTHAT'24 (Recent Trends in Healthcare and Assistive Technologies) in association with IEEE EMBS Kerala Chapter, at Mar Baselies College of Engineering and Technology, Trivandrum, 29th Jan to 02nd February 2024.
- Participated in the “One Week FDP on RFIC Design & Low Power Analog Circuit Technique” CVR College of Engineering during 26-30, December 2023.
- Participated in the two days workshop in the “CADENCE EDA Tool” during January 11th - 12th, 2024 at Saveetha Engineering College.
- Participated in one day workshop on ‘AI Tools for Engineering Education” on 5th January 2024, at Saveetha Engineering College.
- Participated in the AICTE-AU STTP on Recent Trends in Data Sciences at MIT January 3rd - 8th, 2022
- Participated in the workshop on ‘R&D Project proposal-Awareness, Needs and Benefits’ at Anna University, June 2013.
- Participated in the IEEE Awareness Programme, at St Xavier’s Catholic College Engineering, March 2010.
- Participated in the IEEE Branch counselor meet at Anna University, August 2015.

PROFESSIONAL MEMBERSHIPS:

- Professional Membership/IEEE
- Professional Membership/ISTE
- Professional Membership/ISOI

OTHER DETAILS (If any):

- Conducted Anna University Synopsis Doctoral Committee Meeting at Pongesly College Engineering, 02/08/2024.
- Conducted Anna University Synopsis Doctoral Committee Meeting at St Xavier's Catholic College Engineering, 09/12/2024.