

List of faculty publication in refereed/SCI Journals:

Publications of Dr. O. Saraniya

S.No.	Year	No.of Publication	Index
	(2024-2025)		
1	M. Vivek Kumar and O. Saraniya,“Energy and throughput aware adequate routing for wireless sensor networks using integrated game theory method” Scientic Report, Vol. 14, pp. 1-25. DOI: https://doi.org/10.1038/s41598-024-71902-5	1	SCI
	(2022-2023)		
2	B. Elakkiya. and O. Saraniya, “Novel neural network architecture using sharpened cosine similarity for robust classification of Covid-19, pneumonia and tuberculosis diseases from X-rays” Journal of Intelligent and Fuzzy Systems, Vol.44, No.4, pp.6065-6078.DOI: 10.3233/JIFS-222840.	1	Scopus

Publications of Dr.P.Deepa

S.No.	Year	No.of Publication	Index
	(2025-2026)		
1	M. Shunmugathammal, C.Ajitha, Finney Daniel Shadrach, Muthukumaran N, Malar KA, A.Ahilan, P.Deepa, and BalamuraliPydi, "Flexible fractal loaded patch antenna for wearable application", Analog Integrated Circuits and Signal Processing Vol.1 (2), pp.125-145.DOI: https://doi.org/10.1007/s10470-025-02475-0	2	Scopus
2	K. ArumugamPalanichetty andP. Deepa “Design of a high-speed, low-power radiation-hardened 12 T SRAM for mitigating single event upsets (SEUs) using deep residual multiscalepufferfish convolutional neural network with attention mechanism in space and satellite systems” Radiation Effects and Defects in Solids, pp.1-30. DOI: https://doi.org/10.1080/10420150.2025.2556759		Scopus/SCI
	(2024-2025)		
1	R Kala and P Deepa “Adaptive hexagonal fuzzy hybrid filter for Rician noise removal in MRI images”Neural Computing and Applications Vol 36,pp 11023-11023, Jun 06, DOI : 10.1007/s00521-017-2953-4.	1	SCI/Scopus
	(2023-2024)		
2	R kala and P Deepa “Deep learning based brain tumor detection via fuzzy hexagonal membership function”Intelligent and fuzzy systems vol 45,pp 2979-2992, DOI :10.3233/JIFS-221990.	1	SCI/Scopus
	(2022-2023)		
	S. Jothilakshmi and P. Deepa“Blind image deblurring using	1	

3	GLCM and negans obtuse mono proximate distance” The Imaging Science Journal, pp.1-11, Jan 2023, DOI: 10.1080/13682199.2022.2161996		SCI/Scopus
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Publications of Dr.G.Suchitra

S.No.	Year	No.of Publication	Index
(2025-2026)			
1	S. Apsara, G.Suchitra,and A.M.Kowshalya, “Efficient image authentication using Walsh-Hadamard Transform in encrypted domain” Signal, Image and Video Processing, Vol.19, pp. 858-.875. DOIhttps://doi.org/10.1007/s11760-025-04442-8	1	SCI/Scopus
(2024-2025)			
1	Suchitra, G “Secure Medical Image Processing Using Henon Chaotic Encryption and Watermarking with DWT and IWT”, International Journal of Scientific Development and Research, vol. 10, no. 3, pp. 747-751. Impact Factor: 3.401. DOI:10.http://doi.one/10.1729/Journal.44618	1	Scopus
(2023-2024)			
2	Prabha ,PA, Suchitra, G &Saravanan, “Cephalopods Classification Using Fine Tuned Lightweight Transfer Learning Models”. Intelligent Automation and Soft Computing, vol. 35, no. 3, pp. 3065-3079. Impact Factor: 3.401. DOI:10.32604/IASC.2003.030017	1	Scopus

Publications of Dr.S.Mathivanan

S.No.	Year	No.of Publication	Index
(2022-2023)			
1	S. Mathivanan and A. Rajeswari, “Omnidirectional Microstrip MIMO Antenna for Intelligent Vehicle RADAR Communication”, pp.3407–3421, July 2022. DOI:10.1007/s11277-022-09923-4	1	SCI/Scopus

Publications of Dr.J. Rangaraj

S.No.	Year	No. of Publication	Index
(2022-2023)			
1.	A. Dinesh and J. Rangaraj, “Energy Efficient Clustering and Routing Using Hybrid Fuzzy with Modified Rider Optimization Algorithm in IoT -	1	Scopus

	Enabled Wireless Body Area Network”, Journal of Machine and Computing, pp. 171-183, April 2023. doi: 10.53759/7669/jmc202303016.		
(2023-2024)			
2	T.Mohandoss and J.Rangaraj, “Machine Learning Based Performance Analysis of Video Object Detection and Classification Using Modified Yolov3 and Mobilenet Algorithm”, Journal of Machine and Computing, vol.3, no.3, pp. 282-296, 05 th July 2023, doi: 10.53759/7669/jmc202303025	4	Scopus
3	T.Mohandoss and J.Rangaraj, “Performance Analysis of Surveillance Video Object Detection using LUNET Algorithm”, International Journal of System Assurance Engineering and Management, pp. 3011–3026, 15th April 2024,doi: 10.1007/s13198-024-02311-0		Scopus
4	Balakumar D and Rangaraj J, “A Prediction Model Based Energy Efficient Data Collection for Wireless Sensor Networks”, Journal of Machine and Computing, vol.3, no.4, pp. 360-378, October 2023.doi: 10.53759/7669/jmc202303031.		Scopus
5	T.Mohandoss and J.Rangaraj, “Multi-Object Detection using Enhanced YOLOv2 and LuNet Algorithms in Surveillance Videos”, ELSEVIER e-Prime - Advances in Electrical Engineering, Electronics and Energy, pp. 01-12, 06 th April 2024, doi: 10.1016/j.prime.2024.100535		Scopus
	2024-2025		
6	Balakumar D and Rangaraj J, “An energy-efficient prediction based data collection approach using deep LSTM in wireless sensor network”, Intelligent Decision Technologies-, vol.19, no.4, pp. 1 -34, October 2023.doi: http://doi.one/10.1729/Journal.44618.	2	SCI
7	A. Dinesh and J. Rangaraj, “An energy-efficient routing protocol for wireless body area networks using hybrid artificial bee colony optimization and chicken swarm optimization algorithm”, Journal of Engineering andApplied Science- vol.72, no., pp. 1 - 37, 2025 doi: https://doi.org/10.1186/s44147-024-00533-4		Scopus

Publications of Dr.T.Purusothaman

S.No.	Year	No.of Publication	Index
(2021-2022)			
1	J. Kalidass, T. Purusothaman and P. Suresh, "Enhancement of end-to-end security in advanced metering infrastructure", Journal of Ambient Intelligence and Humanized Computing, 12(9), pp. 1-10, September 2021. DOI: https://doi.org/10.1007/s12652-021-03409-0	1	Scopus

Publications of Dr.C. Vasanthanayaki

S.No.	Year	No.of Publication	Index
(2022-2023)			
1	M. <u>Jamuna Rani</u> and C.Vasanthanayaki"ELM-Based Shape Adaptive DCT Compression Technique for Underwater Image Compression" <u>Computer Systems Science and Engineering</u> , 45(2), 2023 pp. 1953–1970 DOI: https://doi.org/10.32604/csse.2023.028713	1	Scopus

List of quality publications in Books/Book Chapters:

Name of the Authors	Title of the Book/Book Chapter	Publication	ISBN No.	Year of Publications
Dr.G.Suchitra	Fusion Based multi objective thresholding for underwater segmentation Bioinspired algorithm	CRC Press- Taylor & Francis Group	9781003606611	2024
G. Sreeja and O. Saraniya	Image Fusion through Deep Convolutional Neural Network	Deep Learning and Parallel Computing Environment for Bioengineering Systems, Elsevier	9780128167182	2019
C. Bagavathi and O. Saraniya	Evolutionary mapping techniques for Systolic Computing System	Deep Learning and Parallel Computing Environment for Bioengineering Systems, Elsevier	9780128167182	2019
R. Kala and	Analysis of Rician Noise Restoration Using Fuzzy	Lecture Notes in Electrical Engineering -		

P. Deepa,	Membership Function with Median and Trilateral Filter in MRI	Advances in Electrical and Computer Technologies- Springer .	9789811555589	2020
J. Rangaraj and M. Anitha	Efficient QoS Routing in MANET by a Novel Hybrid Technique	Lecture Notes on Data Engineering and Communications Technologies - Springer .	9783030031459	2018
G.Thirugnanam and R.Nanmaran	Medical Image Multiple Watermarking scheme based on Integer Wavelet Transform and Extraction using ICA	Communications in Computer and Information Science – Springer	9789811399398	2018
G.Thirugnanam and B.Bharathidasan	Multi-resolution Satellite Fusion method for INSAT Images	Communications in Computer and Information Science – Springer	9789811399398	2019