

Sethu Institute of Technology
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<u>Department of Computer Science and Engineering</u>			
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DESIGNATION	Assistant Professor , CSBS		
QUALIFICATION	B.E(ECE)., M.E(ECE)., (PhD)		
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EXPERIENCE	INDUSTRY	TEACHING	TOTAL
	-	5	5
DATE OF JOINING THE INSTITUTION	21.08.2024		
RESEARCH FOCUS	Medical Image Processing		
SUBJECT COMPETENCY	Digital Signal Processing, Antenna, Communication Theory		
NO OF JOURNAL PUBLICATION (INTERNATIONAL/NATIONAL)	International - 5		
NO OF CONFERENCE ATTENDED (INTERNATIONAL/NATIONAL)	National – 1		
NO OF PATENT PUBLISHED & GRANT	Published - 1, Granted - 1		



Academic Credentials

Level	Degree	Specialization	University	Year of Completion
Ph.D	PhD	Medical Image Processing	KARE/ Kalasalingam University	Thesis Submitted
PG	M.E.	Communication Systems	TCE / Anna University	2017
UG	B.E.	ECE	SIT/ Anna University	2015

Details of Journal Publication

S.No	Details
1.	Sarathkumar, M, K. S. Dhanalakshmi, "CBGAT: an efficient breast cancer prediction model using deep learning methods." Multimedia Tools and Applications (2023): 1-31. Impact factor 3.6. https://doi.org/10.1007/s11042-023-16640-y
2.	Sarathkumar, M, K. S. Dhanalakshmi, D. Madhivadhani and Revathi. V "A Deep Learning Approach For Efficient Breast Cancer Diagnosis Using Hybrid CNN_BILSTM with Soft Attention Mechanism." International Journal of Electronics and Communication Engineering. https://doi.org/10.14445/23488549/IJECE-V11I5P114
3.	M. Sarathkumar, K. S. Dhanalakshmi and P. Rajkumar, "Improving Breast Cancer Detection in Mammogram Images Using Moth Flame Algorithm Optimized Convolutional Neural Network (2023), International Conference on Energy, Materials and Communication Engineering (ICEMCE), Madurai, India, pp. 1-5, http://dx.doi.org/10.1109/ICEMCE57940.2023.10434209
4.	Sarathkumar M et al., " Detection of change over land use and land cover in Coimbatore urban area." Journal of Green Engineering, 2020, 10(9), pp. 4530–4542.
5.	M.Sarathkumar et al., Automated Water Irrigation Aided by Moisture Sensor and Self-Developed Mobile App, SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, ISSN - Print: 2229-7111, ISSN-Online: 2454-5767, Institute of Technology, School of Management Sciences, Volume 14, Issue 3, Page 99 – 107, July – September 2022
6.	M.Sarathkumar, Dr. A.Banumathi, P.Uma Maheswari, "Wavelet Based Contour Extraction of Dental Images for Human Forensic Identification" ICET March 24 2017.

Details of Patents:

1. Published a Patent entitled “IOT Based Smart Medical Robot Development System ” on 17th May 2024 with the **Application number.202441035952.**
2. Grant a UK Patent entitled “Glass Fiber Helmet ” on 04th December 2023 with the **Design number.6329034.**