




SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of ECE					
Name	S.SELVAKUMAR				
Date of Birth	16.04.1984				
Unique ID	FD4069				
Educational Qualifications	B.E(ECE).,M.E(Communication systems)				
Designation	ASSISTANT PROFESSOR				
Email ID	selvakumar16484@sethu.ac.in				
Alternate Email ID	selvakumar16484@gmail.com				
Experience	Industry	Teaching	Others	Total	
	-	15yrs 06 months	-	15yrs 06 months	
Date of Joining the Institution	27.05.2019				
Area of Specialization	Communication Systems				
Courses taught	Digital Signal processing Digital Electronics Transmission Lines And Waveguide Digital communication Wireless communication				
Research Focus	Image Processing				
Subject Competency	Digital Signal processing Digital Electronics Transmission Lines And Waveguide Digital communication Wireless communication				
No. of papers published	National Journals	International Journals	Conferences		
	-	4	13		
PG Specialization	Communication Systems				
Ph.D. Specialization	Image Processing				
Patents (Filed & Granted)	Published – 2 Granted = 1				



Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	ECE	ANNA UNIVERSITY	2006
PG	M.E	COMMUNICATION SYSTEMS	ANNA UNIVERSITY	2009
Ph.D.	Pursuing (Course work completed)			

Details of Journal Publication:

- 1) P Sakthi, R Bhavani, D Arulselvam, R Karthick, S Selvakumar, M Sudhakar (2022). “**Energy efficient cluster head selection and routing protocol for WSN**”. AIP Conference Proceedings, Volume 2518, Issue 1, Pages 06001, 2022
- 2) K.S.Dhanalakshmi, A.Sindhu, S. Selvakumar, S. Subabalasathiya, R.Karthick. (2020). “**Cardless E-ATM With Secured Biometric Authentication Using Labview**”. International Journal of Advanced Science and Technology, 29(12s), 686 - 692.
- 3) N, Sathiyathan and Selvakumar, S and Selvaprassanth, P, **A Brief Study on IoT Applications** (January 8, 2020). International Journal of Trend in Scientific Research and Development (IJTSRD), Forthcoming , Available at SSRN: <https://ssrn.com/abstract=3515765>
- 4) Sathiyathan, N. and Selvakumar, S and Selvaprassanth, P, **Ultimate Benefits of US-Biopsy Vs Guided Mammography Biopsy for Possible Mini-Analysis without a Specific Breast Mass** (January 12, 2020). Asian Journal of Applied Science and Technology (AJAST) (Quarterly International Journal) Volume 4, Issue 1, Pages 50-54, January-March 2020, Available at SSRN: <https://ssrn.com/abstract=3518277>

Details of Conference attended:

- 1) **S.SELVAKUMAR “PLANT DISEASE DETECTION USING MULTIMODEL REGRESSION ALGORITHM”** International Conference on Emerging Trends in Information & Communication Technologies(ETICT- 2025)
- 2) **S.SELVAKUMAR “COMPARITIVE ANALYSIS OF MACHINE LEARNING METHODS FOR MULTILABEL SKIN CANCER CLASSIFICATION”** International Conference on Emerging Trends in Information & Communication Technologies(ETICT- 2025)

- 3) **S.SELVAKUMAR** “GARBAGE OVERFLOW CONTROL USING HYDRAULIC PRESS MECHANISM” International Conference on Emerging Trends in Information & Communication Technologies(ETICT- 2025)
- 4) **S.SELVAKUMAR** “FOOD CALORIE MEASUREMENT USING SUPPORT VECTOR MACHINE” International Conference on —Recent Trends in Information, Communication and Electrical Engineering ICRTICE 2K24- March 27th & 28th 2024
- 5) **S.SELVAKUMAR** “FAKE BIOMETRIC DETECTION USING MULTI-CNN APPROACH USING THERMAL IMAGES” International Conference on —Recent Trends in Information, Communication and Electrical Engineering ICRTICE 2K24- March 27th & 28th 2024
- 6) **S.SELVAKUMAR** “FAKE BIOMETRIC DETECTION USING MULTI-CNN APPROACH USING THERMAL IMAGES” International Conference on —Recent Trends in Information, Communication and Electrical Engineering ICRTICE 2K24- March 27th & 28th 2024
- 7)
- 8) **S.SELVAKUMAR** “GUARDIAN BAND: THE SMART BRACELET WOMEN’S SAFETY” International Conference on Emerging Trends in Information & Communication Technologies(ETICT- 2024)
- 9) **S.SELVAKUMAR** “GUARDIAN BAND: THE SMART BRACELET WOMEN’S SAFETY” International Conference on Emerging Trends in Information & Communication Technologies(ETICT- 2024)
- 10) **“Gender classification using Artificial Neural Network”** at the 7th International Conference on “Design and Applications of Structures, Drives, Communicational and Computing systems” organized by K. L.N. College of Information Technology, during 7th and 8th March,2016
- 11) **“Image Classification of Heterogeneous Feature by using GPP”** at the “National Conference on Emerging communication trends” organized by P.S.R Engineering College , during 27th and 28th March 2015
- 12) **“Facial Image Compression using Adaptive Wavelet Transform with Arithmetic Encoding”** at the International Conference on “Emerging trends in Engineering Technology – ICETET 2015” organized by Nehru Institute of Engineering and Technology , during 27th March 2015

13) **“Parameter Estimation for System On Chip using VLSI Design ”** at the One Day National conference on Green Computing, NCGC’12 organized by Annapoorana Engineering College on 10-04-2012

Details of Patents Filed and Granted:

Sl.No	Inventors	Patent Title	Patent No.	Year
1	S.Selvakumar	AI-Powered Unmanned Aerial Vehicle (Uav) For Persistent Aerial Surveillance In Military Zones	TEMP/E-1/92732/2023-CHE	2023
2	S.Selvakumar	LI-FI based data transfer device between mobile phones	43819-001	2024
3	S.Selvakumar	Machine Learning Enabled Device for Brain Tumor Detection	465110-001	2025