

Velammal College of Engineering and Technology, Madurai – 625 009

(Autonomous)

Journal/Conference Publication Details

Department of Electronics Engineering (VLSI Design and Technology)

Academic Year 2024-2025

S. No	Name of the Journal/Conference	Title of the Paper	Name of the Author	SCI/SCOPUS/WoS/Google Scholar	Date of Publication
1. 1	Engineering Applications of Artificial Intelligence	Gossypium herbaceum: Folium disease identification and classification using Efficient Net-Coordinate Convolutional Neural Network (EcoNet)	K.Kavitha	SCI	2025
2. 2	Sadhana Academy Proceedings in Engineering Sciences	Frequency-independent antennas for low-frequency radio telescope	K.Kavitha	SCI	2025
3. 3	Secondary Metabolites and their Applications in Various Diseases	Role of deep learning and machine learning algorithms in identifying and classifying secondary metabolites in ashwagandha plant	K.Kavitha, S.Raj Kumar	SCOPUS	2025
4.	Rfid Microwave Circuit and Wireless Power Transfer Enabling 5 6g Communication	Advancements in edible antennas: Design, development, and future prospects in	K.Kavitha, S.Raj Kumar	SCOPUS	2025

		biomedical and 5G/6G applications			
5.	Journal of the Indian Society of Remote Sensing	Enhancing Change Detection Accuracy in Remote Sensing Images Through Feature Optimization and Game Theory Classifier	K.Kavitha	SCI	2025
6.	Modern Intelligent Techniques for Image Processing	Revolutionizing Dentistry: A Survey on Machine Learning, Deep Learning, and Image Processing for Enhanced Patient Outcomes	K.Kavitha, S.Raj Kumar	SCOPUS	2025
7.	Journal of Circuits Systems and Computers	Hybrid MWGSO: Developing Hybrid Heuristic Algorithm for Energy Efficient D2D Communication System with Optimal Resource Allocation	K.Kavitha	SCI	2025
8.	Modern Intelligent Techniques for Image Processing	From Pixels to Precision: Harnessing DenseNet-121 for Accurate Sugarcane Leaf	K.Kavitha	SCOPUS	2025

		Disease Detection			
9.	Assistive Technology Solutions for Aging Adults and Individuals with Disabilities	Enhancing Elderly Care Through Computational Intelligence and Internet of Everything: Innovations and Impacts	K.Kavitha, S.Raj Kumar	SCOPUS	2025
10.	Applications and Challenges of Reconfigurable Intelligent Surfaces in 6g	Reconfigurable Intelligent Surface-Assisted Device-to-Device Communication s: Applications and Research Challenges	K.Kavitha, S.Raj Kumar	SCOPUS	2025
11.	Role of Artificial Intelligence in Advancing Applied Life Sciences	Role of Computational Intelligence Methods to Identify Diseases Using Laryngeal Endoscopic Images: A Survey	K.Kavitha, S.Raj Kumar	SCOPUS	2025
12.	3rd International Conference on Advancements in Electrical Electronics Communication Computing and Automation Icaeca 2025	AI enhanced Autonomous Traffic Sign Recognition and Action System	K.Kavitha	SCOPUS	2025
13.	3rd International Conference on Advancements in Electrical Electronics	A Novel Meta surface-Embedded Antenna for	K.Kavitha	SCOPUS	2025

	Communication Computing and Automation Icaeca 2025	WBAN Communication s			
14.	6th International Conference on Innovative Trends in Information Technology Secure Trustworthy and Socially Responsible AI Ictiit 2025	Portable Multi-Sensor Device for Real-Time Detection of Food borne Pathogens and Contamination	K.Kavitha	SCOPUS	2025
15.	4th International Conference on Smart Technologies Communication and Robotics 2025 Str 2025	Innovative Meta surface-Assisted Star-Coupled Micro strip Antenna Array for Next-Generation Wireless Systems	K.Kavitha	SCOPUS	2025
16.	International Conference on Trends in Engineering Systems and Technologies Ictest 2025	Enhancing Energy Balance and Energy Saving in EH-Wireless Sensor Networks	K.Kavitha	SCOPUS	2025
17.	3rd International Conference on Advancements in Electrical Electronics Communication Computing and Automation Icaeca 2025	Frequency Reconfigurable Antenna using Advanced Materials: A Study	K.Kavitha	SCOPUS	2025
18.	Journal of Electrical Engineering and Technology	Design and Development of Self-Complementary DNA Structure-based Frequency Reconfigurable	K.Kavitha	SCI	2024

		Antenna			
19.	Design and Optimization of Wearable Implantable and Edible Antennas	Design and optimization of wearable, implantable, and edible antennas	K.Kavitha	SCOPUS	2024
20.	Aip Conference Proceedings	Image Denoising Based on Nature-Inspired Optimized Deep Neural Network	K.Kavitha	SCI	2024
21.	Frequenz	Revolutionizing healthcare with metamaterial-enhanced antennas: a comprehensive review and future directions	K.Kavitha	SCI	2024
22.	Frequenz	Gain enhancement in octagonal shaped frequency reconfigurable antenna using meta surface superstrate	K.Kavitha	SCI	2024
23.	Journal of the Indian Society of Remote Sensing	Genetic Algorithm Framework for 3D Discrete Wavelet Transform based Hyperspectral Image Classification	K.Kavitha	SCI	2024
24.	5th International Conference on Sustainable Communication	Deep Learning-Based Efficient Framework for Predicting Lane	K.Kavitha	SCOPUS	2024

	Networks and Application Icsna 2024	Change			
25.	E Prime Advances in Electrical Engineering Electronics and Energy	Modeling and simulation for V-shaped stacked graphene nano sheet FETs (GNFETs) for high frequency applications	S.Raj Kumar	SCI	2025
26.	Tuijin Jishu/Journal of Propulsion Technology	Analytical Modeling of Stacked Aluminium Nitride Nano sheet FETs (AINNFETs) for Cryogenic Applications	S.Raj Kumar	SCI	2024

HoD/ EE (VLSI)