



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)

PUDUCHERRY

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING

PUBLICATIONS

Journals | Conferences | Book Chapters

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

List of Publications AY 2023-24

Number of Publication in National / International Journals	26
Number of Publication in International Conferences	30
Number of Books / Book Chapters	06

INTERNATIONAL JOURNALS for 2023-2024:

Sl.No	Title of the Paper	Name of the Authors	Name of the Journal	Vol, Issue, pp, Year /ISSN	Indexing / UGC /Scopus/ SCI
1	Smart Heart Disease Prediction and Amalgamation Tracking System	S. Ashok kumar Anandkumar Arunkumar.N Karthik charan. D	Engineering Review	Pg 14-21, ISSN: 1330-9587	Web of Science
2	Analysis of Charge Plasma Based Hetero Junction Nanowire Multi Channel Field Effect Transistor For Sub 10 Nm	Balaji M Ashok kumar Shanmugaraj	Journal of Nano- and Electronic Physics	Vol.18, No.6, PP.583-592, 2023 ISSN: 1553-0396/	Scopus
3	Fault Detection in Windmills Using Augmented Reality	Arunagiri P, Pradeep Jayabala, Harikrishnan M and Martin L	International Journal of Sensors, Wireless Communications and Control	Vol 13, Issue 4, 2023 ISSN : 2210-3279	Scopus
4	Repercussions Through Inclusion of Multi Bridge Channels into Gate All Around Nano-Wire Field Effect Transistor	S. Ashok Kumar J. Soundararajan P. Mahendra Peruman, J. Susmitha, K. Krishnaprasath	Journal Of Nano And Electronic Physics	Vol. 15 No 5, 05019(4pp) 2023 ISSN: 2077-6772	Scopus
5	Triple-Band Semi Circular Slotted Microstrip Antenna for Harvesting Ambient Energy of 900/ 2100/ 2300 MHz Cellular Bands	Saranya N*, Lenin SB, Mohanram S, Nadesh D, Ajay Ganesh J	International Journal Of Microwave And Optical Technology	Vol.18, No.6, Pg:2-9 2023	Scopus
6	Transfer Learning based feature extraction with metaheuristic optimization algorithm for detecting gastric cancer using optoelectric sensor in	S.Famila A.Arulmurugan Mahendar R,Kalaiyarasan N.Supriya & Bhargavi Maridu	Optical and Quantum Electronics	2023 https://doi.org/10.1007/s11082-024-07802-9	SCI

Sl.No	Title of the Paper	Name of the Authors	Name of the Journal	Vol, Issue, pp, Year /ISSN	Indexing / UGC /Scopus/ SCI
	Endoscope				
7	Wireless coal mine monitoring system based on ESP-NOW protocol for real data acquisition and analysis	Lenin SB Priyadharshni R Mohanram S Ashok Kumar S	Journal of Engineering Science and Technology Review	Vol 17 (2) Pg - 16 - 22 2023, ISSN: 1791-2377	Scopus
8	An Overview of Wireless Sensor Network-Based Patient Health Monitoring System	P. Suseendhar, T S Krishnapriya, R. Bavithra, Vimal.M, V. Kavithamani, Aravindh.G J. Jaya.	European Chemical Bulletin	Vol 12(10), Pg :1518-1538,2023 ISSN: 2063-5346	UGC
9	Investigation of Charge Plasma based Nanowire Field Effect Transistor for Sub 5 nm	P. Naveen Chander P. Raja S. Ashok kumar R. Gayathri	IETE Journal of Research	Vol. 69, No. 11, 2023 ISSN: 0974-780X	SCI
10	Stochastic Ranking improved Teaching-Learning and Adaptive Grasshopper Optimization Algorithm-based Clustering Scheme for augmenting Network Lifetime in WSNs	N. Tamilarasan, S. B. Lenin, P. Mukunthan, N. C. Sendhilkumar,	China Communication	Vol. 21. Issue (9) : 159-178, 2024 ISSN 1673-5447	SCI
11	Design and Analysis of charge plasma-based heterogeneous L-shaped tunnel field-effect transistor (TFET) for low-power applications	P.Raja S.A. Kumar S.B. Shree R Deepadharshini S Dharani	Journal of Nano and electronics Physics	Vol. 16 No 5, 2024 May 2024 2306-4277	Scopus
12	Single Ended 12t CNTFET SRAM Cell With High Stability For Low Power Smart Device Applications	S. Jayanthi P. Raja M. Elangovan T. S. Murugesh	e-prime-Advances in Electrical Engineering, Electronics and Energy	Vol. 7, PP: 100479(24) , 2024 ISSN: 2772-6711	Scopus
13	Mental Health Status monitoring for people with autism spectrum disorder using machine learning	S.Jayanthi, V. Priyadharshini, V.Kirithiga, S.Premalatha	International Journal of Information Technology	Vol 16, pages 43–51, 2024	Scopus
14	A Novel FSS Loaded Circular Slot Monopole Antenna for Microwave Breast Imaging Application	N. SaranyaP. RajaAlagamma. VYamini KrishnaSubiksha. S	IETE Journal of Research	Vol 70, Issue 9 Pg: 7279-7293 2024	SCI
15	A Compact Double Comb Shape Slotted Rectenna for Ambient RF Energy Harvesting, IJMOT-2024-1-352670	Saranya N Raja P Vigneshwara B Janani R Raghavarshini K	International Journal of microwave and optical Technology	Vol 19 , No 3 ,pg 253-262 , 2024 ,IJMOT-2024-1-352670	Scopus

Sl.No	Title of the Paper	Name of the Authors	Name of the Journal	Vol, Issue, pp, Year /ISSN	Indexing / UGC /Scopus/ SCI
16	A Hybrid Thyroid Tumor Type Classification System using Feature Fusion Multilayer Perceptron and Bonobo Optimization	B Shankarlal S. Dhivya K Rajesh S Ashok	Journal of X-ray Science and Technology	Vol. 32, No. 3, pp. 651-675, 2024, ISSN: 1095-9114	SCI
17	A Multifaceted Approach for Enhancing Anomaly Detection in Industrial Systems with Adaptive Synthetic Sampling and Machine Learning Evaluation	G.Malarselvi, P. Arunagiri, T.Thirumalaikumari, S. Sathees babu, G. Lingasamy, N. Herald Anantha Rufus	Journal of Electrical Systems	Vol 20 No.5S,Pg 2124-2131 2024	Scopus
18	Different Perspective of Deep Learning: Medical Image Diagnosing	Dr. C A Sathiya Moorthy, Makesh Babu K, Dr Mahmad Mustafa, Deepeesh Vijayan, Anitha Ponraj, Dr. D. Hemanand	African Journal of Biological Sciences	Vol 6 No 13, Pg 2170-2191 2024 ISSN: 2663-2187	UGC
19	ALowProfile20-Bit Frequency-Coded L-Shape Multi-Slot Resonator for Chipless RFID Applications	Dr.N.Saranya Thangarasu Deepa, Periyasamy Raja, Kumar Paayal, Arunagiri Sofiya, Raju Swetha	PIER Journal	Vol. 149, Pg 105-109, 2024, doi:10.2528 /PIERC24090202	Scopus
20	Rhombus shaped ultra-wideband Vivaldi antenna with enhanced gain for brain tumor detection	Sivasankari.S Dr.P.Raja Dr.Saranya.N	Engineering Review	Vol 44, Issue 3 2024, ISSN: 1330-9587	Web of Science
21	Performance Analysis of Vertical Gate-All-Around Multi-Bridge Channel Field Effect Transistor for Low-Power Applications	Dr.SB Lenin S.A. Kumar T. Sibbi T. Kumaran R. Pravin	Journal of Nano and electronics Physics	Vol 16,No 5,05028(6P) 2024	Scopus
22	Image De-Weathering Using Median Channel Technique and RGB-based Transmission Map for Autonomous Vehicles	Dr.P. Raja , Sowmiya. M, Subathra. V, Sarah. S	I.J. Image, Graphics and Signal Processing	Vol 16, No 5, Pg :91-104 ,2024	Scopus
23	High-Stability and High-Speed 11T CNTFET SRAM Cell for MIMO Applications	M. Elangovan G. Saravanan S. Jayanthi P. Raja Kulbhushan Sharma S. Nireshkumar	Journal of Circuits and Computers	Vol.32, No.17, Pg 2350291(23 Pages) 2023	Scopus

Sl.No	Title of the Paper	Name of the Authors	Name of the Journal	Vol, Issue, pp, Year /ISSN	Indexing / UGC /Scopus/ SCI
24	Compact UWB Penta-Notch Tetradecagonal Antenna for Secure Defence Communication Applications	Saranya N, Deepa T, Raja P	International Journal Of Microwave And Optical Technology,	VOL.19, NO.6 ,ISSN-2024-8-352843	Scopus
25	Prediction-based spatial correlation clustering algorithm for efficient data reduction in wireless sensor network	Dr.P.Raja Dr.T.deepa,V Barathi	International Journals of Advanced Intelligence Paradigms	Vol 26, No. 3/4, Pg 245-257 2023 ISSN No: 755-0386	Scopus
26	Effective load balancing approach in cloud computing using Inspired Lion Optimization Algorithm	Dr.Kalaiarasan.R , Balamurugan G , Venkata Ravindra Reddy.Y	e-Prime - Advances in Electrical Engineering, Electronics and Energy	Vol 6, 10036, 2023 ISSN Number: 2772-6711	Scopus



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)
PUDUCHERRY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NATIONAL / INTERNATIONAL CONFERENCES for 2023-2024:

Sl. No	Title of the Paper	Name of the Authors	Name of the Conference	Year of publication	ISBN / ISSN	Publisher
1	Design and Analysis of the Electrical Properties of Different Dielectric Oxide Materials for Electrostatic Doping Through Nanowire Multichannel FET	Sivaram kumar Ramya R Ashok kumar Shanmugaraj	International Conference on Circuit Power and Computing Technologies ICCPCT 2023, Kerala	2023	979-8-3503-3324-4	IEEE
2	Design and Development of APM 2.8 controller based drone system for healthcare application	S. Ganesan, A. Saran A. Sanjay C. Muthukumaran S. Surya Raja	International Conference on Circuit Power and Computing Technologies ICCPCT 2023, Kerala	2023	979-8-3503-3324-4	IEEE
3	Glaucoma detection using CNN ensemble classifier and OTSU thresholding algorithm	S. MohanramBalam urugan. V Goventhana. M Rajeshvaran N	International Conference on Circuit Power and Computing Technologies ICCPCT 2023, Kerala	2023	979-8-3503-3324-4	IEEE
4	Privacy-Preserving Integration of Face Recognition System and ESD Tester using Federated Learning	S. B. Lenin G. Azeess Basha G. Srivatsan Z. Aswin	International Conference on Circuit Power and Computing Technologies ICCPCT 2023, Kerala	2023	979-8-3503-3324-4	IEEE
5	Design and Investigation of a Charge Plasma-Based dopingless Cylindrical NW SCFET for sub-10 nm	Sandeep V Charles Pravin J Ashok Kumar S	International Semiconductor Conference CAS, Romania	2023	979-8-3503-2395-5	IEEE
6	Smart Device for Vehicle to evade calamities in Smog	P. Mahendra Peruman Sedhuraman. S, Venkat Theeban.V Yogesh Krushna. R, Aswin. S	International Conference on Systems, Computation, Automation, Networking	2023	979-8-3503-1512-7	IEEE
7	Bayesian Algorithm based Automation system for control of Agricultural Field Parameters	P.Srividdhya Jeevan Sanjay. S Jeevabharathi. T Manivannan. P	International Conference on Systems, Computation, Automation, Networking	2023	979-8-3503-1512-7	IEEE
8	Block-chain-Based deep learning object detection system for Enhanced security and reliability	P. Mahendra Peruman, Krishnan.G Gopinath.M Dharanidar.S	International Conference on Systems, Computation, Automation, Networking	2023	979-8-3503-1512-7	IEEE
9	Aerial Vehicle Landing on a Sloped Surface with Variable Skid Height Using Canny Edge Detection	S. Ganesan Naveen.P Harikaran.U Somnath.S	International Conference on Systems, Computation,	2023	979-8-3503-1512-7	IEEE

Sl. No	Title of the Paper	Name of the Authors	Name of the Conference	Year of publication	ISBN / ISSN	Publisher
			Automation, Networking			
10	Precautions for Maritime Boundary Limit using Geo Tracking & Wave Buoy	S.Pushparaj, Aishwin.M, Logesh prassanna.R, Lokkeswaran.P	International Conference on Systems, Computation, Automation, Networking	2023	979-8-3503-1512-7	IEEE
11	Performance Analysis of Machine Learning Singular Spectrum Analysis for Forecasting Air Contamination	Dr.A.Jayachitra, S.Dhivya and Manju Saravanne	International Conference on System, Computation, Automation and Networking (ICSCAN)	2023	979-8-3503-1512-7	IEEE
12	Performance Analysis of Brushless DC Motor DSP Control Using CCS Studio	Ganesan, S. Dhivya, S. Menaga, B. Priya, R.	International Conference on System, Computation, Automation and Networking (ICSCAN)	2023	979-8-3503-1512-7	IEEE
13	Design and Implementation of Low-cost Blood grouping Prediction using Machine Learning	R.Vijayarani & S.Anbarasi	International Conference on System, Computation, Automation and Networking (ICSCAN)	2023	979-8-3503-1512-7	IEEE
14	An Optimistic Approach to Identify the Quantity of Controller to be Placed in SDN	Pradeesshma.T V.S.K.Venkatachalapthy Raja.P Raju R Victor Paul	International Conference on System, Computation, Automation and Networking (ICSCAN 2023)	2023	979-8-3503-1512-7	IEEE
15	A Ultra-Wideband Vivaldi Antenna with Lozenge Shaped Slots for Biomedical Applications	S. Sivasankari P. Raja N. Saranya	International Conference on System, Computation, Automation and Networking (ICSCAN)	2023	979-8-3503-1512-7	IEEE
16	Decentralized Training for secure Network security:Leveraging RFB Protocol and federated learning in Zero trust Network	R.Priya V.Heera T.Prathela R.Subhiksha	International conference on System, Computation and Automation Networking	2023	979-8-3503-1512-7	IEEE
17	LIDAR & Thermal Camera Based Braking and Life Saving System With Actuator Shield for Wheels	Kurinjimalar,.R, Pradeep, J. , Jayapreethi, K. , Madhumitha, M. ,Narmadha	International Conference on System, Computation, Automation and Networking (ICSCAN 2023)	2023	979-8-3503-1512-7	IEEE

Sl. No	Title of the Paper	Name of the Authors	Name of the Conference	Year of publication	ISBN / ISSN	Publisher
18	Automated Pest and Infestation Detection using CNN and Transfer Learning Techniques	.M.Navaneethakrishnan Manoj Lara C Meharaj C Ragnal Kevin Jerome A	International Conference on System, Computation, Automation and Networking (ICSCAN 2023)	2023	979-8-3503-1512-7	IEEE
19	A Novel Approach to Detect Falls Using an IoT-Based Health Analysis System	Navaneethakrishnan V M Muhammad Aadhil M Piradeep R Raghul A	International Conference on System, Computation, Automation and Networking (ICSCAN 2023)	2023	979-8-3503-1512-7	IEEE
20	Auto Lumina: A Smart Vehicle Light Control Solution	P.Suseendhar Alexandar Hariharan S Vighneshwara B	National Level Conference on Intelligent Bio systems For Healthcare Analytics	2024	-	Conference Proceedings
21	A Diversified analysis to prevent accidents by using IOT system : A pilot survey	S.Dhivya K.Jambulingam R.Priya	National conference on Paradigm shift in Embedded ,Communication, Artificial intelligence & Robotics (PECAR-2K23)	2023	978-81-955131-6-1	conference Proceedings
22	Analysis of Helipona Irridepennnis with IoT Based monitoring Apiculture	K.Jambulingam R.Priya S.Dhivya	National conference on Paradigm shift in Embedded ,Communication, Artificial intelligence & Robotics (PECAR-2K23)	2023	978-81-955131-6-1	conference Proceedings
23	A Scrutiny of Diversified Techniques for Air Pollutant Level Detection	Dr.SB.Lenin , N.Tamilarasan , S.Mohanram , C. Elakshme Devi , M.R. Dharshini , S. Dharshan , G. Chandru	International Conference on Innovations, Challenges and Solutions in Engineering Science and Technology (ICICSET'24)	2024	978-81-971735-6-1	IEEE
24	Machine Learning Enabled Document summarization technique for educational data	S.Dhivya	International Conference on Recent Trends in Artificial Intelligence and IOT: Challenges and Opportunities	2024	-	IEEE
25	Deep Learning based Automated Detection of Diabetic Retinopathy a Comparative Analysis of C-NN, K-NN and SVM Classifiers	S.Dhivya, J.Pradeep	International Conference on Recent Trends in Artificial Intelligence and IOT: Challenges	2024	-	IEEE

Sl. No	Title of the Paper	Name of the Authors	Name of the Conference	Year of publication	ISBN / ISSN	Publisher
			and Opportunities			
26	Diabetic Retinopathy Detection Using Spiking Neural Network	Dr.J.Pradeep M.Harikrishnan	International Conference on Data Science and Applications	2024	978-3-032-10939-2	Springer Nature Singapore
27	Underwater Image Enhancement Using Gaussian Pyramid, Laplacian Pyramid and Contrast Limited Adaptive Histogram Equalization	R.Kurinjimalar; J. Pradeep; M. Harikrishnan	2024 IEEE 3rd World Conference on Applied Intelligence and Computing (AIC)	2024	979-8-3503-8460-4	IEEE
28	A Flexible Wi-Fi 6 Antenna with low SAR for Wearable Military Applications	Dr.T.Deepa Pabbisetty Harshini, Vaishshale Rathinasamy	International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication (IConSCEPT)	2024	979-8-3315-4069-2	IEEE
29	Differential Region-Based Segmentation Method for Brain Tumor Detection using Computed Tomography Images	Dr.R.Kalaiyarasan , R.kaviarasan , G.Balamurugan	International Conference on System, Computation, Automation and Networking (ICSCAN	2024	979-8-3315-1003-9	IEEE
30	Power Quality Disturbance Detection in Hybrid Wind-SPV Plants using Deep learning approaches	Mr.P.Mahendra Peruman Dr.K.Ayyar	Innovations in Communications, Electrical and Computer Engineering(ICICEC 2024)	2024	9798350376524	IEEE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BOOK/BOOK CHAPTER FOR 2023-2024

Sl.No	Title of Book / Book Chapter	Name of the Authors	ISBN / ISSN	Publisher
1	Advances in Flexible and Printed Electronics Materials, fabrication, and application Chapter 9 Recent Developments in Flexible and Printed Reconfigurable Antennas for Medical and Internet of Things Applications	Madurakavi Karthikeyan, J Pradeep, M Harikrishnan, R Sitharthan, Naveen Mishra, M Rajesh and Thamizharasan Sivanesan	Online ISBN: 978-0-7503-5492-9 • Print ISBN: 978-0-7503-5490-5	IOP Publishing Ltd 2023
2	Low Power Designs in Nanodevices and Circuits for Emerging Applications Chapter 4- Investigation and optimization of high stability 6T CNTFET SRAM cell with low power	Elangovan M S.Jayanthi P.Raja	9781003459231	CRC Press
3	Securing the Internet of Things (IoT) Environment Using Bio-Inspired Meta-Heuristic Methodologies	P. Harikrishna, R. Koviakaran, R. Kalaiyarasan	9781032686745	Taylor & Francis Group
4	IoT-Based Classification of COVID-19 Using Feature Extraction and Hybrid Architectures of Convolutional Neural Network (CNN)	A. Arulmurugan, R. Kaviakaran, R. Kalaiyarasan	9781032686745	Taylor & Francis Group
5	Advances in All-optical Communication Chapter11: Absorbers as biosensors: leveraging absorption phenomena for enhanced biosensing	Madurakavi Karthikeyan Pradeep .J M Harikrishnan R. Sitharthan M Rajesh Avinash Chandra Rajkishor Kumar	978-0-7503-5621-3	IOP Publishing Ltd 2024
6	Design and Optimization of Wearable, Implantable, and Edible Antennas Chapter 2 : An Exclusive Survey on Metamaterial-Based Fractal Antennas for Wireless Applications	Rasheeda Bibi R. Kalaiyarasan G. Nagarajan	9798369326596	IGI Global Science Publishing

