

SRM Institute of Science and Technology				
College of Engineering and Technology				
Department of Electronics and Communication Engineering				
Academic Year 2022-2023				
Scopus Indexed Publications				
Faculty Name	Count	Article title	Journal Name	DOI
Dr. S. Malarvizhi	5	Multiuser-scheduling and resource allocation using max-min technique in wireless powered communication networks	Indonesian Journal of Electrical Engineering and Computer Science	10.11591/ijeecs.v27.i2.pp832-841
		A Comparative Analysis of Regression Algorithms for Prediction of Emotional States using Peripheral Physiological Signals	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134253
		Edge Retention Based CT and MRI Fusion using Decomposition Techniques NSST And SWT	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134348
		Music Recommendation System using Real Time Parameters	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134257
		Classification of Valid Test Patterns using Auto Encoder for Adaptive Testing in VLSI	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134483
Dr. P. Aruna Priya	2	Enhanced Temperature Sensing Based on the Randomness in the Multilayered 1D Photonic Crystals	Journal of Physics: Conference Series	10.1088/1742-6596/2357/1/012020
		MRI Segmentation of Human Brain for Diagnosis of ADHD	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134179

Dr.T.Ramarao	1	Investigations on Mode Analysis of Distributed Bragg Reflector based Hybrid Plasmonic Terahertz Waveguide	Journal of Physics: Conference Series	10.1088/1742-6596/2335/1/012012
Dr. J. Selvakumar	1	An Automated Neural Network Approach for Predicting Paddy Leaf Diseases and Auto pumping of Fertilizer along with IoT	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10133989
Dr. P. Eswaran	3	Performance Analysis of InAs-GaAs Gate-all-around Tunnel Field Effect Transistors (GAA-TFET) for Analog/RF applications	Journal of Physics: Conference Series	10.1088/1742-6596/2335/1/012043
		Performance evaluation of MDKF based on state estimations for path tracking applications	Journal of Physics: Conference Series	10.1088/1742-6596/2335/1/012021
		Analog/RF Performance Evaluation of InAs-InGaAs-GAA-TFET	IEEE Xplore	
Dr. M. Sangeetha	2	BlockChain-Based Decentralized KYC Verification Framework for Banks	Procedia Computer Science	creativecommons.org/licenses/by-nc-nd/4.0
		5G Antenna Design Methods And Performance Enhancement Techniques: A Review	IEEE Xplore	10.1109/ACCESS.2020.3020952
Dr.S.Dhanalakshmi	2	Identification and Classification of Groundnut Leaf Disease Using Convolutional Neural Network	International Conference on Computational Intelligence in Data Science	https://link.springer.com/chapter/10.1007/978-3-031-16364-7_19
		Object Detection and Recognition for Visually Impaired Using Cross-Stage-Partial Network Algorithms	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134256

Dr. P. Vijayakumar	3	Classification of Adulterated Food Grain Thermal Images Using Convolutional Neural Networks	Communications in Computer and Information Science	10.1007/978-3-031-25088-0_42 .pp 475–480
		Development of a smart sensor array for adulteration detection in black pepper seeds using Machine Learning	International Journal of Advanced Computer Science and Applications	10.14569/IJACSA.2023.0140375
		A Review on Fish Species Classification and Determination Using Machine Learning Algorithms, Intelligent Sustainable Systems	Networks and Systems book series	10.1007/978-981-19-2894-9_49
Dr. A. Ruhan Bevi	1	Performance Analysis of Top-Hat Transform In The NIR Spectrum	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134378
Dr. Diwakar R Marur	2	Detection and Classification of Obstructive Sleep Apnea Disorders: A Comparative Analysis of Various Deep Machine Learning Classifiers	Revue d'Intelligence Artificielle	10.18280/ria.370125
		Multi-level trespasser entry surveillance and security system	AIP Conference Proceedings	10.1063/5.0114679
Dr. J. Manjula	2	Dual band millimetre wave 32 GHz and 40 GHz HEMT low noise amplifier for Ka band applications	International journal of Systems	10.1504/IJSCC.2022.10050566
		Novel Method of Characterization of Dispersive Properties of Heterogeneous Head Tissue Using Microwave Sensing and Machine Learning Algorithms	Advanced Electromagnetics	10.7716/aem.v11i3.1821
Dr. M. S. Vasanthi	3	Coverage Optimization in LoRa with Diverse Fading Wireless Channels	Journal of Physics: Conference Series	10.1088/1742-6596/2335/1/012008

		Performance of Outage Probability and Ergodic Sum Rate for Two-User Paired NOMA Downlink System	Journal of Physics: Conference Series	10.1088/1742-6596/2335/1/012035
		AVOIDING ROAD ACCIDENTS DURING EXTREME FOG CONDITIONS	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134317
Dr. T. Deepa	2	Performance analysis of compressive sensing recovery algorithms for image processing using block processing,	International Journal of Electrical and Computer Engineering	10.11591/ijece.v12i5.p5063-5072
		Design and implementation of blockchain based peer to peer energy trading platform	J. Phys.: Conf. Ser.	10.1088/1742-6596/2335/1/012059
Dr. M. Susila	1	State of Charge Estimation and Analysis For an Electric Vehicle	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134396
Dr. T. Rajalakshmi	2	Automated Audiometer for Home based health care based on Mobile App	AIP Conference Proceedings.	10.1063/5.0126375
		A Novel Lung tumor detection technique using Fast greedy snakes algorithm	AIP Conference Proceedings.	10.1063/5.0126492
Dr. J. Subhashini	1	Quality Analysis of Tomato for Ketchup Manufacturing Industry using Deep Learning	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134207
Dr. K. Vijayan	1	Smart Solar Tracking system for optimal power generation using three LDR's	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134521
Dr. S. Yuvaraj	1	Vehicle Information Storage Container with Video Recovering	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134308

Dr.S. Latha	1	Different Methods to Remove Baseline Wandering Noise from the ECG Signal: A Research Perspective	Third International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023) IEEE Xplore	10.1109/ICAIS56108.2023.10073914
Dr. Rajesh Agarwal	1	Analysis of The Effect of Different Electrical and Physical Parameters on Contact Resistance in Organic Thin Film Transistors and Optimization using Machine Learning	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134035
Dr. K. Suganthi	2	CMOS Cascode Low Noise Amplifier (CCLNA) Design for Nanosensor Applications	Journal of Nano-and Electronic Physics	10.21272/jnep.14(3).03020
		Design and Analysis of Wide-band Doherty Main Power Amplifier	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134434
Dr. M. Neelaveni Ammal	1	Metamaterial Based Circularly Polarized Parasitic Element Driven DRA for Sub 6 GHz Wireless and 5G Communication Applications	International Journal on Communications Antenna and Propagation	10.15866/irecap.v12i4.21228
Ms. T. Ramya	1	An Enhanced Probabilistic-Shaped SCMA NOMA for Wireless Networks	Journal of Interconnection Networks	https://dx.10.1142/S0219265923500032 t
Dr. V. Sarada	2	DCGAN for Data Augmentation in Pneumonia Chest X-Ray Image Classification	Lecture Notes in Networks and Systems	10.1007/978-981-19-8825-7_12

		IMPROVING SENSITIVITY OF ZnO NANORODS FOR THE APPLICATION OF GAS SENSORS AT LOW TEMPERATURES: A REVIEW	IEEE Explorer	10.1109/ICNGIS54955.2022.10079894
Dr. E. Chitra	2	Unsupervised Lung Anomaly Detection from Chest Radiographs for Curative Care using isolation forest algorithm	IEEE Explorer	10.1109/OTCON56053.2023.10113915
		Improving Data Integrity with Reversible Logic-based Error Detection and Correction Module on AHB-APB Bridge	IEEE Explore	10.1109/RAEEUCCI57140.2023.10134491
Dr. P. Radhika	3	Performance Comparison of MCML, PFSCCL and Dynamic CML gates with parametric analysis in 45 nm CMOS technology	Springer-Lecture Notes in electrical Engineering book series(LNEE)	10.1007/978-981-19-7753-4_35
		A High-Speed MCML Logic Gate and Multiplexer Design in 45 nm CMOS Technology	IEEE Xplore	10.1109/ICERECT56837.2022.10059652
		Design and optimization of an on-chip Artificial neural network on FPGA for recognizing handwritten digits.	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134408
Dr. S. Kayalvizhi	1	Weather Management System using Machine Learning Algorithm and IoT	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134454
Mrs. S. Kolangiammal	3	Design of Sub-6 GHz MIMO Antenna for 5G	AIP Conference Proceedings.	10.1063/5.0126318
		Design of 32-bit MAC unit using fast adders and vedic multiplier	AIP Conference Proceedings.	10.1063/5.0126338
		Cardio Monitoring and Cardiac disease prediction using Machine Learning	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134081
Dr. S. Vasanthadev Suryakala	1	Coin and RFID Based EV Charging Station	IEEE digital Xplorer	10.1109/IIHC55949.2022.10060537

Dr. K. Vadivukkarasi	1	IoT Enabled Inter Satellite Communication using LoRa And TinyGS	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134174
Dr. B. Priyalakshmi	1	Navigational tool for the blind	AIP Conference Proceedings	10.1063/5.0095640
Dr. K. Harisudha	2	Automatic System for Driver Drowsiness Detection System using Deep Learning	IEEE Explorer	10.1109/ICONAT57137.2023.10080067
		Calorie Measurement for Raw Vegan Diet Using Deep Learning Networks	Lecture Notes in Networks and Systems	10.1007/978-981-99-0838-7_58
Mrs. M.K. Srilekha	1	Student Live Behaviour Monitoring During Virtual Class using Artificial Intelligence	Journal of Physics	10.1088/1742-6596/2335/1/012026
Mrs. A. Vinnarasi	1	Transport of Particulate Matter Due to Meteorological Changes Analyzed by HYSPLIT	Revista de Chimie (Rev. Chim.),	10.37358/RC.22.4.8542
Mr. S. Praveen Kumar	3	Detection and Prevention of Distributed Denial of Service in Mobile ADHOC Network	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134098
		Blockchain and QKD Protocol-based Security	IEEE Xplore	https://ieeexplore.ieee.org/document/10142769
		RF And Computer Vision Based Warning System For Minimizing Road Accidents	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134135
Mr. B. Ananda Venkatesan	2	Design of triple strip line structured UWB MIMO antenna with modified ground plane	AIP Conf. Proc.	10.1063/5.0110228

		Design and Analysis of Quad Element UWB MIMO Antenna with Mutual Coupling Reduction Techniques	Lecture Notes in Electrical Engineering	10.1007/978-981-99-0085-5_4
Mr. G. Elavel Visuvanathan	2	Reduction of peak to average power ratio for FBMC based using G-DFT	AIP Conf. Proc.	10.1063/5.0101764
		5G UE Simulation	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134514
Dr. R. Prithiviraj	1	Detection of Handwritten Digits using Fully Connected Artificial Neural Network in FPGA for Replacement of GPU	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134313
Mr. M. Maria Dominic Savio	3	Design of High speed Multiplier using Input Scrambled 5-3 compressor for Error Tolerant image processing	J. Phys.: Conf. Ser.	10.1088/1742-6596/2335/1/012044
		VLSI Architectures for Security Analysis with Dual-Key LFSR using Barrel Shifter and S-Box	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134034
		Smart Trolley Application with an Approximate Multiplier Approach Using Embedded Platform	J. Phys.: Conf. Ser.	10.1088/1742-6596/2335/1/012062
Mrs. S. Hannah Pauline	1	De-Noising of Impaired Speech Signal using Optimized Adaptive Filtering Configuration	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134065
Mrs. A. Ramya	1	Detection and Classification of Leukaemia using Artificial Intelligence	IEEE xplorer	https://ieeexplore.ieee.org/abstract/document/10134243
Mr. A.Sriram	1	Design of Planar Antenna for UWB Communication	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134107
Mrs.A.Jaba Deva Krupa	1	Automatic Detection of Fetal QRS Complex using Time-Frequency Image Based Features and Deep Learning Architecture	IEEE Xplore	10.1109/ICESC54411.2022.9885294

Mrs.R.Monika	1	adaptive measurement allocation for underwater images using block energy in haar wavelet domain	AIP conference proceedings	
Mrs.S.S.Gayathri	1	Efficient Floating-point Division Quantum Circuit using Newton-Raphson Division	Journal of Physics: Conference Series	10.1088/1742-6596/2335/1/012058
Dr. Sandeep Kumar P	1	Single Layer Reflectarray Antenna for High-Frequency Applications	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134296
Dr. Kanaparthi V Phani Kumar	2	Development of computer vision based assistive software for accurate analysis of autistic child stereotypic behavior	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134091
		A Miniaturized Dual Narrow-Band Bandpass Filter using A Hairpin Resonator and Coupled Lines	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134052
Dr. Damodar Panigrahy	1	A Novel Technique Based on Aquila Optimiser Algorithm for Optimal Integration of Distributed Generations in the Distribution System	Process Integration and Optimization for Sustainability	10.1007/s41660-022-00278-8
Dr.Soumyaranjan Routray	3	Prediction of Performance Metrics of Nanosheet Field Effect Transistor with LR and RFR Machine Learning Models	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134284
		Performance Evaluation of High Efficiency and Low Cost Bi-Layer Perovskite Solar Cell	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134439
		Kesterite(CCTS) Solar Cell with Back Surface Field (BSF) Layers (CZTS/CZTSe): Empirical Observations into Electrical and Optical Parameters	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134085

Dr. C. Vimala	2	A comparative analysis of chronic obstructive pulmonary disease using machine learning and deep learning	International Journal of Electrical and Computer Engineering,	https://www.scopus.com/authid/detail.uri?authorId=57285253000
		Network Traffic Prediction for 5G Network	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134497
Dr. Sachin Kumar	5	Electromagnetic metamaterial-inspired wideband millimeter-wave antenna for 5G communication	Materials Today: Proceedings - 2	10.1016/j.matpr.2023.03.464
		Compact two-port ultra-wideband multiple-input-multiple-output antenna with an electromagnetic band gap structure	Materials Today: Proceedings	10.1016/j.matpr.2023.03.372
		A compact dual-band antenna with an elliptical-shaped meta-resonator array	Materials Today: Proceedings	10.1016/j.matpr.2022.08.039
		A miniaturized tri-band antenna loaded with D-shaped meta-structures	Materials Today: Proceedings	10.1016/j.matpr.2022.08.037
		A Two-Port UWB MIMO Antenna with an EBG Structure for WLAN/ISM Applications	Materials Today: Proceedings.	10.1016/j.matpr.2022.08.316
Mr. Harish Chandra Kumawat	1	Real-Time Face Transition using Deepfake Technology (Gan Model)	IEEE	10.1109/RAEEUCCI57140.2023.10134474
Dr. Arijit Bardhan Roy	2	Enhancement the efficiency of thin AlGaAs based multi-junction Silicon solar cells through doping and thickness profile optimization	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134005

		Performance enhancement Of GaAs and InP Based Multi-Junction Silicon Solar Cells using thickness and doping profile optimization	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134102
Dr. Manish Verma	3	Design of Low Power Approximate Multiplier Based on Compressors for Multimedia Application	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134205
		Performance Evaluation of High Efficiency & Low Cost Bi-Layer Perovskite Solar Cell	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134439
		Temperature Analysis along with Headcounts on LCD display using IR/US Sensors	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10133981
Dr. Sanjay Kumar Sahu	1	Simulation Study of a Miniaturized UWB Antenna loaded with FSS Reflector for Breast Tumor Detection	IEEE Xplore	10.1109/RAEEUCCI57140.2023.10134176