SRM Institute of Science and Technology
College of Engineering and Technology
Department of Electronics and Communication Engineering
Academic Year 2024 - 2025 (As on March 1st 2025)
Scientific Citation Indexed Publications

Name of the Author	Count	Title of paper	Name of journal	DOI
Dr. M. Sangeetha	1	Eight-port multiband MIMO antenna design with high isolation for 5G smartphones	International Journal of Microwave and Wireless Technologies	doi:10.1017/S1759078724000849
Dr. B. Ramachandran	1	Wideband Circularly Polarized Reconfigurable Metasurface Antenna for 5G Applications	Frequenz	10.1515/freq-2023-0216
Dr. R. Kumar	3	An efficient adaptive compressive sensing technique for underwater image compression in IoUT	Wireless Networks	10.1007/s11276-022-02921-1
		Tilted fiber Bragg grating based optical sensor for simultaneous measurement of vital signs: a novel approach	International Journal of Electrical and Computer Engineering (IJECE)	10.11591/ijece.v15i2.pp1434-1445
		Experimental investigation on polymer coated fibre bragg grating sensor for temperature measurement in sewer environment	Results in Engineering	https://doi.org/10.1016/j.rineng.2025.104319
Dr. S.Malarvizhi	1	Machine Learning-Based Human Stress Detection Model Employing Physiological Sensory Data	Arabian Journal for Science and Engineering	https://doi.org/10.1007/s13369-024-09927-1
Dr. Shanthi Prince	5	Power Efficient UAV-Assisted FSO Communication: Novel 4-PAM Optical Pulse Generation and Performance Analysis in Foggy Environment	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-024-07208-7

		Tracking the real-time position of an ocean sensor/buoy-like cylindrical target using a depth sensing camera and a computational edge device	Optics Continuum	https://doi.org/10.1364/OPTCON.53442
		Millimeter wave frequency generation based on variations in coupling coefficients of a silicon add-drop microring resonator	Physica Scripta	https://doi.org/10.1088/1402-4896/ad79c6
		Maximising OLED performance: Unleashing the power of stacking transport, injection and blocking layers along with different emissive materials	Pramana-Journal of Physics	https://doi.org/10.1007/s12043-024-02835-x
		Highly birefringent hexagonal porous core photonic crystal fiber for polarization maintaining integrated THz-photonics applications	Optical and Quantum Electroniucs	https://doi.org/10.1007/s11082-024-07593-z
Dr. P. Aruna Priya	2	1D Topological Photonic Crystal based Nanosensor for Tuberculosis Detection	Nanotechnology	https://doi.org/10.1088/1361-6528/ad61ec
		Local interpretable model-agnostic explanations guided brain magnetic resonance imaging classification for identifying attention deficit hyperactivity disorder subtypes	Journal of Ambient Intelligence and Humanized computing	https://doi.org/10.1007/s12652-024-04950-4
Dr. T. Rama Rao	1	Graphene based linear array antenna and quad-port multiple input and multiple output antenna for terahertz wireless communication	Microsystem Technologies	DoI.10.1007/s00542-024-05832-7
Dr. S. Latha	1	Age-related Macular Degeneration Diagnosis in Optical Coherence Tomography Images with Gray Level Co-occurrence Matrix Features, Genetic Algorithms, and Random Forest Classifier	Technology and Health Care	10.1177/09287329241301649
Dr. S. Dhanalakshmi	5	An efficient adaptive compressive sensing technique for underwater image compression in IoUT	Wireless Networks	10.1007/s11276-022-02921-1

		Experimental investigation on polymer coated fibre bragg grating sensor for temperature measurement in sewer environment	Results in Engineering	https://doi.org/10.1016/j.rineng.2025.104319
		Tilted fiber Bragg grating based optical sensor for simultaneous measurement of vital signs: a novel approach	International Journal of Electrical and Computer Engineering (IJECE)	10.11591/ijece.v15i2.pp1434-1445
		Coefficient-Shuffled Variable Block Compressed Sensing for Medical Image Compression in Telemedicine Systems	Bioengineering	https://doi.org/10.3390/bioengineering11111101
		An optimized lens design using optical imaging for surveillance camera systems with minimal aberration	Journal of Optics	DOI 10.1088/2040-8986/ada782
Dr. P. Vijayakumar	4	Real-Time Monitoring and Assessment of Rehabilitation Exercises for Low Back Pain through Interactive Dashboard Pose Analysis Using Streamlit—A Pilot Study	MDPI-Electronics	https://doi.org/10.3390/electronics13183782
		Development of a near infrared region based non-invasive therapy device for diabetic peripheral neuropathy	Nature-Scientific Reports	10.1038/s41598-024-78144-5
		An Interference Cancelation and Signal Decoding Method for Non-orthogonal Multiple Access Based on Deep Learning,	IETE Journl of Research	https://doi.org/10.1080/03772063.2024.2402000
		Genetic Algorithm and the Kruskal–Wallis H-Test-Based Trainer Selection Federated Learning for IoT Security	IEEE Access	doi:10.1109/ACCESS.2024.3450836
Dr. K. Kalimuthu	1	Design and Analysis of Flexible Antenna Sensor for Non- invasive Detection of Pregnancy in Bovine	Journal of Electromagnetic Theory and Applications	https://doi: 10.1080/09205071.2024.2420073.

Dr. Deepa T	2	Maximising communication reliability in vehicular visible communication systems: a novel Allan variance—based adaptive Kalman filtering approach	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-024-07386-4
		Energy-efficient data routing using neuro-fuzzy based data routing mechanism for IoT-enabled WSNs	Scientific Reports	https://doi.org/10.1038/s41598-024-79590-x
Dr. T. Rajalakshmi	1	CRC Fusion AICADx: Integrative CNN-LSTM Approach for Accurate Colorectal Cancer Diagnosis in Colonoscopy Images	Cognitive Computation	10.1007/s12559-024-10357-2
Dr. J. Manjula	3	Develop the Hybrid Empirical Mode Decomposition with Fast Mask CNN to Improve the Performance Measures of PCG Signals	Traitement du Signal	https://doi.org/10.18280/ts.410418
		A Novel Approach for the Detection of Cardiovascular Abnormalities from Electrocardiogram and Phonocardiogram Signals Using Combined CNN-LSTM Techniques	Traitement du Signal	https://doi.org/10.18280/ts.410629
		Charge pump-based PVT-resilient 45 nm CMOS dynamic comparator leveraging high speed and power efficiency	AEU International Journal of Electronics and Communications	https://doi.org/10.1016/j.aeue.2024.155550.
Dr. Arijit Bardhan Roy	1	Fabrication of Gold Nanoparticle-Masked ITO Nanopillars Using Argon Plasma Etching: Utilization and Application in the Thin c-Si Flexible Solar Cell	IEEE TRANSACTIONS ON PLASMA SCIENCE	10.1109/TPS.2025.3533101
Dr. E. Sivakumar	1	Wideband Circularly Polarized Reconfigurable Metasurface Antenna for 5G Applications	Frequenz	10.1515/freq-2023-0216
Ms. S. Diana Emerald Aasha	1	Maximising OLED performance: Unleashing the power of stacking transport, injection and blocking layers along with different emissive materials	Pramana-Journal of Physics	https://doi.org/10.1007/s12043-024-02835-x

Dr. S. Yuvaraj	2	Iv3-MGRUA: a novel human action recognition features extraction using Inception v3 and video behaviour prediction using modified gated recurrent units with attention mechanism model	Signal, Image and Video Processing	10.1007/s11760-024-03726-9
		A novel human action recognition using Grad-CAM visualization with gated recurrent units	Neural computing and applications	https://doi.org/10.1007/s00521-025-10978-0
Dr. Radhika. P	1	Towards accurate diagnosis: exploring knowledge distillation and self-attention in multimodal medical image fusion	Journal of Experimental & Theoretical Artificial Intelligence	https://doi.org/10.1080/0952813X.2024.2396131
Dr. Susila M	2	Conformal multi-channel MIMO antenna for implantable leadless transcatheter pacing systems	AEU-International Journal of Electronics and Communication	https://doi.org/10.1016/j.aeue.2024.155621
		Reconfigurable Ultra-Miniaturized MIMO Antenna for Tissue-Independent Communication in Injectable Medical Implants	IEEE Access	https://doi.org/10.1109/ACCESS.2025.3535780
Dr. E. Chitra	1	PulmonNet V1: Leveraging the benefit of Leaky ReLU activation for the local and multi-scale global feature integration of chest radiographs to classify pulmonary diseases	Biomedical Signal Processing and Control	https://doi.org/10.1016/j.bspc.2024.106600
Dr. K. Ferents Koni Jiavana	1	Machine Learning-Based Human Stress Detection Model Employing Physiological Sensory Data	Arabian Journal for Science and Engineering	https://doi.org/10.1007/s13369-024-09927-1
Dr. Rajesh Agarwal	2	Gate Misalignment Effect on Electrical Characteristics and Comparison of Analog/RF Performance Parameters of Triple Metal Dual Gate Vertical TFET	Micro and Nanostructures	https://doi.org/10.1016/j.micrna.2024.208048
		Subthreshold slope optimization for pentacene based organic tunnel field	Organic Electronics	https://doi.org/10.1016/j.orgel.2024.107176
Dr. Debanjan Sarkar	1	High FOM Plasmonic Nanosensor for Blood Biomolecule Detection	Plasmonics	https://doi.org/10.1007/s11468-024-02487-y

Dr. R. Neelaveni Ammal	4	Dielectric resonator antenna with square slot dgs and amc support for gain enhancement	Physica Scripta	DOI 10.1088/1402-4896/ad7425
		A metamaterial broadband absorber by tuning single graphene material for various Terahertz domain applications	Diamond and Related Materials	https://doi.org/10.1016/j.diamond.2024.111705
		Low SAR Based Modified Circular Patch Antenna for Future Biomedical Applications and Body Area Networks	Wireless Personal Communications	https://doi.org/10.1007/s11277-024-11592-4
		Investigation and Optimization of High-Isolation Double T-Shaped Wearable Antenna	IETE Journal of Research	https://doi.org/10.1080/03772063.2024.2442024
Dr. Tulika Srivastava	4	2D material assisted Prism based Surface Plasmon Resonance Sensors: A comprehensive survey	Optics and Lasers in Engineering	https://doi.org/10.1016/j.optlaseng.2024.108452
		Bismuth and Tellurium Co-Doping: A Route to Improve Thermoelectric Efficiency in InSe Polycrystals	Materials Adcances	https://doi.org/10.1039/D4MA01011F
		Tailoring LRSPR penetration depth employing 2D material at visible and IR range	IEEE Access - Sensors Journal	https://doi.org/10.1109/JSEN.2024.3443631
		Insight of Employing Molecular Junctions for Sensor Applications	ACS Sensors	https://doi.org/10.1021/acssensors.4c02173
Dr. A. Ramya	2	Experimental investigation on polymer coated fibre bragg grating sensor for temperature measurement in sewer environment	Results in Engineering	https://doi.org/10.1016/j.rineng.2025.104319
		Tilted fiber Bragg grating based optical sensor for simultaneous measurement of vital signs: a novel approach	International Journal of Electrical and Computer Engineering (IJECE)	10.11591/ijece.v15i2.pp1434-1445
Dr. K. Suganthi	1	Stacked and Doherty Power Amplifier for 6G Communication Deployment	International Journal of Multi-Physics	https://www.themultiphysicsjournal.com/index.php/ijm/article/view/1488

Dr. C. Vimala	1	Heuristically Modified Attention Residual Network Aided Pulmonary Emphysema Detection with Adaptive Pre-processing and Deep Unet-Based Segmentation	Sensing and Imaging	https://doi.org/10.1007/s11220-024-00493-2
Dr. Dayana. R	2	Unveiling the unseen: novel strategies for object detection beyond known distributions	Pattern Analysis and Applications	https://doi.org/10.1007/s10044-024-01334-4
		Development of a Privacy-Preserved and Secure Cooperative Spectrum Sensing System in Cognitive Radio Networks Using ATSNRNN-Enabled FPPDES With Machine Learning	IEEE-Access	10.1109/ACCESS.2024.3484508
R.Jansi	1	A Deep Learning Approach for Air Pollution Classification Using InceptionV3 with Transfer Learning	Aerosol Science and Engineering	https://doi.org/10.1007/s41810-025-00285-5
Dr. Sudhanya. P	1	Analysis of FPGA Architecture with Hybrid Logic Blocks Based on ULG and LUT	Journal of Circuits, Systems and Computers	https://doi.org/10.1142/S0218126625500598
Dr. Phani Kumar Kanaparthi.V	4	Highly miniaturized dual-band bandpass filter with wide bandwidth and large center frequency ratio	Journal of Electromagnetic Waves and Applications	https://doi.org/10.1080/09205071.2024.2400996
		Miniaturized Dual-Band Bandpass Filter With Wide Inter Stopband for 5G Applications	IEEE Transactions on Circuits and Systems--II: Express Briefs	https://doi.org/10.1109/TCSII.2024.3395621
		Design and Implementation of a Highly Compact Intraocular Antenna With Enhanced Bandwidth for Wireless Data Telemetry in Retinal Prosthesis	IEEE journal of electromagnetics, rf, and microwaves in medicine and biology	10.1109/JERM.2024.3493622
		An IoT-Based Framework for Automated Assessing and Reporting of Light Sensitivities in Children with Autism Spectrum Disorder	Sensors	10.3390/s24227184

Dr. S. Sathiyan	4	SARS-CoV-2 Detection Using Black Phosphorus-MXene-Black Phosphorus Heterostructure Surface Plasmon Resonance Biosensor	Plasmonics	https://doi.org/10.1007/s11468-024-02545-5
		Design and analysis of low-loss and low-dispersion hybrid cladding tube antiresonant fiber for the THz regime	Indian Journal of Physics	https://doi.org/10.1007/s12648-024-03422-x
		A novel hollow-core antiresonant fiber-based biosensor for blood component detection in the THz regime	Biomed Phys Eng Express	https://doi.org/10.1088/2057-1976/ada88a
		Detection of cancer type cells using surface plasmon resonance employing copper perovskite and MXene layer with sensitivity enhancement	Plasmonics	https://doi.org/10.1007/s11468-024-02742-2
Dr. R. Monika	2	Coefficient-Shuffled Variable Block Compressed Sensing for Medical Image Compression in Telemedicine Systems	Bioengineering	https://doi.org/10.3390/bioengineering11111101
		An efficient adaptive compressive sensing technique for underwater image compression in IoUT	Wireless Networks	10.1007/s11276-022-02921-1
Mrs. A. Bhavani	1	Genetic algorithm and the Kruskal-Wallis H-test-based trainer selection federated learning for IoT security	IEEE Access	https://doi.org/10.1109/ACCESS.2024.3450836
Dr. Anusooya V	1	Design and analysis of corner scatter inclusion in photonic crystal-based ring resonator	Optica Applicata	https://doi.org/10.37190/oa240202
Dr. Damodar Panigrahy	2	A novel hybrid ESO-DE-WHO algorithm for solving real-engineering optimization problems	International Journal of System Assurance Engineering and Management	https://doi.org/10.1007/s13198-024-02609-z

		Optimized deep convolutional neural network with a long short-term memory framework for automated myocardial infraction detection in electrocardiogram images using Grey Wolf Optimizer	Journal of Electronic imaging	10.1117/1.JEI.34.1.013050
Dr. Soumyaranjan Routray	3	Unlocking the Potential of Kesterite Solar Cells: Quantum Confinement Structures to Pave the Way for High-Performance Photovoltaic Technologies	Physica Scripta	10.1002/pssa.202400341
		Experimental and theoretical advances in Cu2ZnSn(S,Se)4 solar cells	Journal of Physics D: Applied Physics	10.1088/1361-6463/adab7f
		Stride potential of CZGS/CZGSe quantum dot solar cell influence of nano-structured all-around-barriers	Micro and Nanostructures	https://doi.org/10.1016/j.micrna.2025.208083
Dr. Sandeep Kumar. P	6	Thirty-two port super wideband diversity antenna for indoor communications	Nature Scientific Reports	https://doi.org/10.1038/s41598-024-76008-6
		Optically transparent coplanar wideband antenna for vehicular communication	International Journal of Communication Systems	https://doi.org/10.1002/dac.5968
		A Novel Miniaturized Single-Layer Frequency Selective Surface With Triband Characteristics	International Journal of Antennas and Propagation	10.1155/ijap/4053255
		Design and Analysis of Wideband Single-Layer Reflectarray Antenna for Remote Sensing and Environmental Monitoring	Sensors	10.3390/s25030954
		A novel miniaturized swastika-based dual band-stop frequency selective surface	Waves in Random and Complex Media	https://doi.org/10.1080/17455030.2024.2444251
		A Flexible Reconfigurable MIMO Antenna for IoT-Enabled Smart Systems	International Journal of Antennas and Propagation	https://doi.org/10.1155/2024/7557178
Dr. S. Umamaheswari	1	Early detection of thermal image based T1 breast cancer using enhanced multiwavelet denoised convolution neural network with region based analysis	Automatika	https://doi.org/10.1080/00051144.2024.2413219

Dr. R. Prasanna	2	Enhanced Blood Prothrombin Time Detection Deploying Flexible Substrate UWB Antenna from Artifacts Removed Pure Plasma Through Statistical Multiple Regression Modelling	Computer and Electrical Engineering	https://doi.org/10.1016/j.compeleceng.2024.109963
		Effective Biomedical System for Detecting, Tracking, and Preventing Asymptomatic COVID-19 Patients Non-Invasively using IoT and Mixed Reality	International Journal for Multiscale Computational Engineering	10.1615/IntJMultCompEng.2023050009
Dr. B. Vasudevan	1	Design and Optimization of Highly Sensitive Nickel Resonator Surface Plasmon Resonance Refractive Index Biosensor for Hemoglobin Detection	Plasmonics - Springer	https://doi.org/10.1007/s11468-024-02609-6
Dr.Ananda Venkatesan B	1	Design and Analysis of Flexible Antenna Sensor for Non- invasive Detection of Pregnancy in Bovine	Journal of Electromagnetic Theory and Applications	https://doi: 10.1080/09205071.2024.2420073.
Mrs.Suganthi Brindha G	2	Develop the Hybrid Empirical Mode Decomposition with Fast Mask CNN to Improve the Performance Measures of PCG Signals	Traitement du Signal	https://doi.org/10.18280/ts.410418
		A Novel Approach for the Detection of Cardiovascular Abnormalities from Electrocardiogram and Phonocardiogram Signals Using Combined CNN-LSTM Techniques	Traitement du Signal	https://doi.org/10.18280/ts.410629
Dr. S. Prasad Jones Christydass	2	Split ring resonators and composite FR4 substrate for analysis and design of tri-band monopole antenna	Applied Physics Letter	https://doi.org/10.1063/5.0237840
		Enhanced Performance of Hybrid Dielectric Resonator Antenna with Hexagonal Ring Patch and Ground Slot for Multiband Operation in 5G Wireless Communication	Technical gazette	https://doi.org/10.17559/TV-20240108001254
Dr. Bharatha Babu K	1	Energy management in smart grids for optimal IoT integration with enhanced energy and exergy efficiencies using Garra rufa fish optimisation approach	International Journal of Exergy	DOI:10.1504/IJEX.2024.142624

Dr. Gulothungan G	9	A hybrid mutational Northern Goshawk and elite opposition learning artificial rabbits optimizer for PEMFC parameter estimation	Scientific Reports	DOI:10.1038/s41598-024-80073-2
		Precision parameter estimation in Proton Exchange Membrane Fuel Cells using depth information enhanced Differential Evolution	Scientific Reports	doi: 10.1038/s41598-024-81160-0
		Revolutionizing proton exchange membrane fuel cell modeling through hybrid aquila optimizer and arithmetic algorithm optimization	Scientific Reports	doi: 10.1038/s41598-025-89631-8
		Enhancing postoperative care with telemedicine and remote monitoring for improved recovery and patient safety	International journal of Surgery	10.1097/JS9.0000000000002132
		Hydrogen fuel cell model development and analyzing the effect of changing fuel cell resistance on model performance	International journal of Hydrogen Energy	https://doi.org/10.1016/j.ijhydene.2025.01.383
		A hybrid snow ablation optimized multi-strategy particle swarm optimizer for parameter estimation of proton exchange membrane fuel cell	Ionics	https://doi.org/10.1007/s11581-025-06200-9
		MaOAOA: A Novel Many-Objective Arithmetic Optimization Algorithm for Solving Engineering Problems	Engineering Reports	https://doi.org/10.1007/s11581-025-06200-9
		A levy chaotic horizontal vertical crossover based artificial hummingbird algorithm for precise PEMFC parameter estimation	Scientific Reports	https://doi.org/10.1038/s41598-024-81168-6
		A two phase differential evolution algorithm with perturbation and covariance matrix for PEMFC parameter estimation challenges	Scientific Reports	https://doi.org/10.1038/s41598-025-92818-8

Dr. V. Padmajothi	2	Development of a near infrared region based non-invasive therapy device for diabetic peripheral neuropathy	Nature-Scientific Reports	10.1038/s41598-024-78144-5
		IDOL: IoT based Intrusion Detection using Conv-BiLSTM	Australian Journal of Electrical and Electronics Engineering	https://doi.org/10.1080/1448837X.2025.2454856
Dr. Sukanya Ghosh	1	Gate - All - Around Cylindrical Nanowire FET Based Room Temperature Ammonia Sensor for Diagnostic Applications	IEEE Journal on Flexible Electronics	10.1109/JFLEX.2024.3454561
Dr. M. Jenath	1	Enhanced Blood Prothrombin Time Detection Deploying Flexible Substrate UWB Antenna from Artifacts Removed Pure Plasma Through Statistical Multiple Regression Modelling	Computer and Electrical Engineering	https://doi.org/10.1016/j.compeleceng.2024.109963
Dr. Senthil Kumaran R	2	Securing healthcare data: A federated learning framework with hybrid encryption in cluster environments	Technology and Health care	https://doi.org/10.1177/09287329241291397
		IoT-enabled wireless sensor networks optimization based on federated reinforcement learning for enhanced performance	Peer-to-Peer Networking and Applications	https://doi.org/10.1007/s12083-024-01887-5
Dr. Arijit Bardhan Roy	1	Fabrication of Gold Nanoparticle-Masked ITO Nanopillars Using Argon Plasma Etching: Utilization and Application in the Thin c-Si Flexible Solar Cell"	IEEE TRANSACTIONS ON PLASMA SCIENCE	10.1109/TPS.2025.3533101
Dr. Lakshmi Thara	1	1D Topological Photonic Crystal based Nanosensor for Tuberculosis Detection	Nanotechnology	https://doi.org/10.1088/1361-6528/ad61ec
Dr. S. S. Gayathri	1	A Novel Design of Quantum Multiplexer and Its Identity Rules-Based Optimization for the Spin-Torque-Based n-Qubit Architecture	IEEE Tranascations on Magnetics	http://dx.doi.org/10.1109/TMAG.2024.3471700
Dr. Pulkit Singh	2	Performance-efficient flexible architecture of m–Crypton cipher for resource-constrained applications	AUTOMATIKA	10.1080/00051144.2024.2395617

		Chaotic multiple-image encryption scheme: a simple and highly efficient solution for diverse applications	Journal of Electronic Imaging	https://doi.org/10.1117/1.JEI.33.4.043032

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Scopus Indexed Publications

Name of the Author	Count	Title of paper	Name of journal	DOI
Dr. B. Ramachandran	1	Wideband trans-impedance amplifier with bandwidth tuning for near infra-red spectroscopy bio-medical applications	International Journal of Electrical and Computer Engineering	10.11591/ijece.v14i6.pp6204-6213
Dr. R. Kumar	1	Tilted fiber Bragg grating based optical sensor for simultaneous measurement of vital signs: a novel approach	International Journal of Electrical and Computer Engineering	http://doi.org/10.11591/ijece.v15i2.pp1434-1445
Dr. Shanthi Prince	2	Underwater Object Localization and Detection of Square Shaped Target using Edge AI in Video Streams	OCEANS 2024 - Singapore.	10.1109/OCEANS51537.2024.10682175
		Investigation of an Optical Method for the Bilirubin Detection of Neonates in vivo	IEEE Xplore	DOI:10.1109/ICAECC59324.2023.10560300
Dr. T Rama Rao	1	Ka-Band Transmission Link Analysis for Earth-Mars Satellite Communications	IEEE Xplore	10.1109/ICICEC62498.2024.10808668
Dr. S. Malarvizhi	1	A Filter Based Approach for Enhancing Audio Signal Clarity Using Simulink	IEEE conference	10.1109/ICICNIS64247.2024.10823105
Dr. T. Deepa	5	Adaptive Compressive Sensing for Natural Images Using Schur Decomposition and Optimized Reconstruction	IEEE Xplore	10.1109/ICSES63445.2024.10763235
		Spatially Variant based on Patch Division for Digital Pill Analysis Using Prototype Model	IEEE Xplore	10.1109/ICOSEC61587.2024.10722528

		Efficient Design of Precoded Multicarrier System using Software Defined Radio	IEEE Xplore	10.1109/ICICEC62498.2024.10808330
		Enhancing Modulation Scheme with Efficient Decomposition Algorithm for Future SDR-Based Communication Systems	IEEE Xplore	10.1109/ICICEC62498.2024.10808300
		Optical Design of Low Beam Headlight and Channel Modelling for Visible Light Vehicular Communication	International Journal of Electrical and Electronics Engineering	https://doi.org/10.14445/23488379/IJEEE-V11I11P133
Dr. P. Eswaran	1	A Quad Element UWB MIMO Antenna Design for Indoor High Data Rate Communication	Journal of Engineering Science and Technology	10.25103/jestr.176.09
Dr. S. Dhanalakshmi	2	Tilted fiber Bragg grating based optical sensor for simultaneous measurement of vital signs: a novel approach	International Journal of Electrical and Computer Engineering	http://doi.org/10.11591/ijece.v15i2.pp1434-1445
		A Comparative Analysis of GCN and GAT for Predicting Protein-Protein Interactions	IEEE Xplore	10.1109/ICEECT61758.2024.10739146
Dr. B. Vasudevan	9	Non-Invasive Early Pancreatic Cancer Prediction with Gradient Boosting Algorithms Machine Learning Models with Clinical dataset collected from Urinary Biomarkers	IEEE Xplore	https://doi.org/10.1109/ACCAI61061.2024.10602237
		Big Data Graph Node Importance Using Page Rank	IEEE Xplore	https://doi.org/10.1109/ICICEC62498.2024.10808874
		Regenerative Braking Solutions for Electric Vehicles: Advancing Efficiency and Energy Recapture	IEEE Xplore	10.1109/ICCES63552.2024.10860067
		Cloud-Integrated Deep Learning for Predictive Emergency Braking in Autonomous Vehicles	IEEE Xplore	https://doi.org/10.1109/ICSCNA63714.2024.10864179
		Free Space Optics Transmission Enabled by PAM-4 Signals: Performance Evaluation Under Indian Weather Conditions	Internet Technology Letters - Wiley	https://doi.org/10.1002/itl2.70004

		Diagnosis of Alzheimer disease from multi-modal data: Role of Artificial Intelligence	IEEE Explorer	DOI: 10.1109/ICSES63760.2024.10910359
		Mindful Breathing Coaches Using IoT-Integrated AI Systems for Personalized Anxiety Relief	IEEE Xplore	https://doi.org/10.1109/ICICEC62498.2024.10808269
		A novel artificial intelligence-based antenna designing model for optimizing 5G mobile communication	Internet Technology Letters - Wiley	https://doi.org/10.1002/itl2.58
		Efficient Radon Levels Detection in Residential Areas using Cloud-Enabled Decision Trees for Real-Time Analysis	IEEE Xplore	https://doi.org/10.1109/I-SMAC61858.2024.10714889
Dr. A. Ramya	1	Tilted fiber Bragg grating based optical sensor for simultaneous measurement of vital signs: a novel approach	International Journal of Electrical and Computer Engineering	http://doi.org/10.11591/ijece.v15i2.pp1434-1445
Dr. A. Ruhan Bevi	3	A State-of-the-art High-Resolution Network based Dipolar Detector for Occluded Pedestrian Detection	IEEE Xplore	https://doi.org/10.1109/ICAEECI58247.2023.10370841
		A novel YOLOv8 architecture for human activity recognition of occluded pedestrians	International Journal of Electrical and Computer Engineering	https://doi.org/10.11591/ijece.v14i5.pp5244-5252
		A Deep Learning Framework for Crowd Internet of Things (Crowd-IoT)	Smart Innovation, Systems and Technologies	https://doi.org/10.1007/978-981-97-6222-4_27
Dr. S. Latha	2	Enhanced AMD detection in OCT images using GLCM texture features with Machine Learning and CNN methods	Biomedical Physics & Engineering Express	10.1088/2057-1976/ada6bc
		Optimization of Support Vector Machines Performance using OCT Images	IAENG International Journal of Computer Science	
Dr. B. Ananda Venkatesan	1	Algebraic Topology in Modern Cryptography: A Cross-Disciplinary Perspective	Panamerican Mathematical Journal	https://doi.org/10.52783/pmj.v35.i2s.3205

Dr. S. Umamaheswari	2	Enhanced Detection of Whiteflies on coconut leaves through TERE and MASK R-CNN Integration	IEEE Xplore	10.1109/IACIS61494.2024.10721932
		Intelligent Headgear System	IEEE Xplore	10.1109/ICAAIC60222.2024.10575911
Dr. Harisudha.K	2	Analysis of Magnetic Resonance Imaging for Parkinson's Disease	Lecture Notes in Networks and Systems, 2024	10.1007/978-3-031-64813-7_7
		EEG Signal Acquisition and Analysis for Detecting and Classifying Mental Disorders	E3S web of conference	https://doi.org/10.1051/e3sconf/202561602017
Dr. Kanaparthi V Phani Kumar	1	Planar Quad-Band Bandpass Filter Employing Transmission Lines Loaded with Tri-Stepped Impedance Open- and Dual-Stepped Impedance Short-Ended Resonators	Progress In Electromagnetics Research C	10.2528/PIERC24042504
Dr. R. Monika	1	Secure and Efficient Medical Image Exchange Using Compressive Sensing and LSB Audio Steganography	IEEE Xplore	https://doi.org/10.1109/ICOECA62351.2024.00101
Dr. Sudhanya P	1	Machine-Learning-Enhanced Polarization Splitter in Silicon-Integrated Dual-Core Photonic Crystal Fiber	Signals and Communication Technology	https://doi.org/10.1007/978-3-031-56144-3_30
Dr. Roji Marjorie S	2	Optimized k-nearest neighbours classifier based prediction of epileptic seizures	Bulletin of Electrical Engineering and Informatics	https://doi.org/10.11591/eei.v13i4.6598
		Evaluating the Performance of Deep Learning Models in Predicting Brain Ischemic Stroke Risk using EEG Signals	IEEE Explore	
Dr.C.Vimala	1	DenseNet201: A Deep Learning Method for Improving Pulmonary Emphysema Identification from Chest X-rays	IEEE Xplore	10.1109/ICCES57224.2023.10192859
Dr. S.Yuvaraj	1	A novel 4:1 data selector based on cell interaction using quantum cellular automata.	*AIP Conference Proceedings.*	https://doi.org/10.1063/5.0229251

Dr. R. Jansi	3	Yoga Pose Classification Using CNN with PReLU Activation	IEEE Xplore	https://doi.org/10.1109/APCI61480.2024.10616842
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		AI infant listener: Deep learning for automatic baby cry recognition and analysis using IoT	AIP Conference Proceedings.	https://doi.org/10.1063/5.0217111
Dr.Anilet Bala A	1	A Rescue Aid for Hazardous Situations	IEEE Xplore	https://gcek.ac.in/APCI2024/
Dr. P. Sumitra	1	Reliable Network-on-Chip Design with Spare Node Analysis for Smart Fault Management	IEEE Xplore	https://doi.org/10.1109/icpects62210.2024.10780320
Dr. S. Sunithamani	1	Reliable Network-on-Chip Design with Spare Node Analysis for Smart Fault Management	IEEE Xplore	https://doi.org/10.1109/icpects62210.2024.10780320
Dr. R. Kayalvizhi	2	De-noising of Low Dose CT Liver Images Using Improved Discrete Wavelet Transform	Springer Nature	https://doi.org/10.1007/978-3-031-69982-5_18
		Enhanced Celestial Object Detection for Astronomical Research based on CNN and Raspberry Pi	Journal of Electrical Systems	https://journal.esrgroups.org/jes/article/view/7792
Dr. Heartlin Maria H	2	De-noising of Low Dose CT Liver Images Using Improved Discrete Wavelet Transform	Springer Nature	https://doi.org/10.1007/978-3-031-69982-5_18
		Enhanced Celestial Object Detection for Astronomical Research based on CNN and Raspberry Pi	Journal of Electrical Systems	https://journal.esrgroups.org/jes/article/view/7792
Dr. R. Dayana	4	Navigating the Domain Shift Object Detection in Indian Road Datasets	Communications in Computer Information Science	https://doi.org/10.1007/978-3-031-64067-4_21
		Design of patch antenna and its implementation in spatial multiplexing for 5g NR applications	5G and Fiber Optics Security Technologies for Smart Grid Cyber Defense	10.4018/979-8-3693-2786-9.ch010
		Encryption protocols and security for 5G		10.4018/979-8-3693-2786-9.ch004

		OSL-ABE: an optimal secure and lightweight attribute-based encryption method for blockchain-enabled IoT-based healthcare systems	Neural Computing and Applications	https://doi.org/10.1007/s00521-024-10388-8
Dr. D. Vijayalakshmi	2	Design of patch antenna and its implementation in spatial multiplexing for 5g NR applications	5G and Fiber Optics Security Technologies for Smart Grid Cyber Defense	10.4018/979-8-3693-2786-9.ch010
		Encryption protocols and security for 5G		10.4018/979-8-3693-2786-9.ch004
Dr. S. Krithiga	4	Design of patch antenna and its implementation in spatial multiplexing for 5g NR applications	5G and Fiber Optics Security Technologies for Smart Grid Cyber Defense	10.4018/979-8-3693-2786-9.ch010
		Encryption protocols and security for 5G		10.4018/979-8-3693-2786-9.ch004
		Quantum-Enhanced Automatic Gas Booking System	Multidisciplinary Applications of AI and Quantum Networking	DOI: 10.4018/979-8-3693-9336-9.ch026
		A Filter Based Approach for Enhancing Audio Signal Clarity Using Simulink	IEEE conference	10.1109/ICICNIS64247.2024.10823105
Dr.J.Subhashini	1	Optimizing Power Consumption of Office Building Appliances- Smart Grid Application	IEEE Explorer	https://doi.org/10.1109/ICEES61253.2024.10776928
Dr. M. K. Srilekha	1	Smart Solutions for Automated Restaurant Service with Machine Learning	IEEE Xplore	10.1109/ICDICI62993.2024.10810935
Dr.T.Rajalakshmi	2	IoT Enabled Automotive Onboard Telemetry Recorder	IEE Explorer	https://doi.org/10.1109/InC460750.2024.10649287
		Refining thyroid function evaluation: a comparative study of preprocessing methods in diffuse reflectance spectroscopy	International Journal of Electrical and Computer Engineering	10.11591/ijece.v15i1.pp303-310

Mr. B. Muthukumaran	1	Wideband trans-impedance amplifier with bandwidth tuning for near infra-red spectroscopy bio-medical applications	International Journal of Electrical and Computer Engineering	http://doi.org/10.11591/ijece.v14i6.pp6204-6213
Dr. T. Saminathan	1	A Quad Element UWB MIMO Antenna Design for Indoor High Data Rate Communication	Journal of Engineering Science and Technology	DOI:10.25103/jestr.176.09
Dr. T. S. Karthik	1	IoT Activity Symphony: Harmonizing DBSCAN Clustering and t-SNE Visualization for Enhanced Recognition	IEEE Xplore	https://doi.org/10.1109/ICCPCT61902.2024.10673069
Dr. V. Ceronmani Sharmila	5	Conversational Chatbot Builder-Smarter Virtual Assistants with Domain Specified AI	IEEE Xplore	10.1109/ICONSTEM60960.2024.10568607
		Graphene-based Wearable E-Textiles Integrated with Deep Learning for Real-Time Sweat Analysis in Military and Sports Applications	IEEE Explorer	10.1109/ICMNWC63764.2024.10872139
		Real-Time Speed Estimation in Urban Traffic using YOLOv8	IEEE Explorer	10.1109/ICMNWC63764.2024.10872042
		A Deep Learning Model for Interpreting Car Following Behaviors	IEEE Xplore	10.1109/ICPECTS62210.2024.10780043
		Smart Monitoring of Parkinsons's Disease with Cloud-IoT Technologies	IGI Global	10.4018/979-8-3693-7225-8.ch009
Dr. S. Giriprasad	1	Cloud Computing-Enhanced and Raspberry Pi-Powered Solution for Remote Ear, Nose, and Throat Consultations with AI-Driven Diagnostics	IEEE Xplore	https://doi.org/10.1109/INCET61516.2024.10593133
Dr. A. Lavanya	1	Machine-Learning-Enhanced Polarization Splitter in Silicon-Integrated Dual-Core Photonic Crystal Fiber	Signals and Communication Technology	https://doi.org/10.1007/978-3-031-56144-3_30
Dr. V. Anusooya	2	Enhanced Bank Locker Security System Utilizing RFID for Dual-Layer Protection	IEEE Xplore	https://doi.org/10.1109/ICOSEC61587.2024.10722058
		Intelligent Recognition of Optical Modulation Formats in Dynamic Communication Networks	IEEE Xplore	10.1109/SSITCON62437.2024.10796754

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Dr.Soumyaranjan Routray	2	Thermal Resistance Modeling and its Different Aspects on AlGaN/GaN HEMTs: A Comprehensive Review in Modeling of AlGaN/GaN High Electron Mobility Transistors.	Springer Tracts in Electrical and Electronics Engineering. Springer	https://doi.org/10.1007/978-981-97-7506-4_6
		Regenerative Braking Solutions for Electric Vehicles: Advancing Efficiency and Energy Recapture	IEEE Xplore	10.1109/ICCES63552.2024.10860067
Dr. S. Kolangiammal	3	Cloud-Powered Healthcare Appointment Optimization with Reinforcement Learning for Efficiency	IEEE Xplore	https://doi.org/10.1109/ICoICI62503.2024.10696195
		IoT-Enabled Exoskeletons for Firefighters Using Reinforcement Learning for Adaptive Support in Emergency Situations	IEEE Xplore	https://doi.org/10.1109/ICoICI62503.2024.10696056
		Transforming Yard Management for Optimizing Efficiency through IoT and AI Integration	IEEE Xplore	https://doi.org/10.1109/I-SMAC61858.2024.10714882
Dr. K. Dhivya	4	IoT-Driven Defect Detection System for Plastic Recycling Plants based on Convolutitional Neural Networks	IEEE Xplore	http://dx.doi.org/10.1109/ICSSAS64001.2024.10760568
		Advanced Resource Mapping in Coal Exploration using IoT Sensor-Based Drilling Systems with SVM Integration	IEEE Xplore	https://doi.org/10.1109/ICICEC62498.2024.10808402
		Heat Stress Forecasting and Mitigation in Outdoor Worker Safety Using Gradient Boosting and IoT Technologies	IEEE Xplore	0.1109/icicec62498.2024.10808859
		Smart Home Gardening with Robotic Assistance using Cloud-Connected Plant Care and Neural Networks Growth Analysis	IEEE Xplore	10.1109/ICICEC62498.2024.10808702

Dr. M. Jenath	5	MAC AI - Multilingual & Automatic Conversational AI	IEEE Xplore	10.1109/ICPECTS62210.2024.10780001
		Design of Dual Band Slot Loaded Microstrip Patch Antenna for Wireless Applications	IEEE Xplore	10.1109/ICPECTS62210.2024.10780109
		KPI Metrics Based Promotion Predictive Analysis (PPA) Model	IEEE Xplore	10.1109/ICPECTS62210.2024.10780297
		IoT Based Soil Moisture Monitoring and Nutrients Suggestion Based on the Soil pH Value	IEEE Xplore	10.1109/ICPECTS62210.2024.10780246
		Advanced Smart Transportation System Using V2V Communication	IEEE Xplore	10.1109/ICSCAN62807.2024.10894517
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Dr. Pratik Mondal	1	Size Reduction of Wilkinson Power Divider Using a combination of Parallel Coupled Lines and Defective Microstrip Structures	International Journal of Communication Systems	https://doi.org/10.7716/aem.v13i3.2432
Dr. A. Manikandan	7	Biometric and Bio-Inspired Approaches for MEMS/NEMS enabled Self-Powered Sensors	Self-Powered Sensors - A Path to Wearable Electronics	https://doi.org/10.1016/B978-0-443-13792-1.00017-1
		Deep Learning Algorithm and Self-powered tactile Sensors for Gesture Recognition	Self-Powered Sensors - A Path to Wearable Electronics	https://doi.org/10.1016/B978-0-443-13792-1.00012-2
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		Stereo Vision Subsystem and Scene Segmentation Self-Steering Tractors in Smart Agriculture	Computer Vision in Smart Agriculture and Crop Management	https://doi.org/10.1002/9781394186686.ch4
		Vision-Based Image Classification and Image Segmentation Algorithms for Plant Disease Diagnostics	Computer Vision in Smart Agriculture and Crop Management	https://doi.org/10.1002/9781394186686.ch5
Dr. Senthil Kumaran R	1	Non-Invasive Early Pancreatic Cancer Prediction with Gradient Boosting Algorithms Machine Learning Models with Clinical dataset collected from Urinary Biomarkers	IEEE Xplore	https://doi.org/10.1109/ACCAI61061.2024.10602237
Dr. R. Srinath	2	Epilepsy Disease Detection Using the Proposed CNN-FCM Approach	Lecture Notes in Networks and Systems	https://doi.org/10.1007/978-981-97-4928-7_29
		Q-Learning Based Forecasting Early Landslide Detection in Internet of Things Wireless Sensor Network	International Journal of Electrical and Computer Engineering	http://doi.org/10.11591/ijece.v15i1.pp425-434
Dr. Pulkit Singh	2	Novel Hardware Architectures of Improved-LEA Lightweight Cipher for IoT Applications	International Journal of Information Technology	https://doi.org/10.1007/s41870-024-02338-3
		Area-efficient Architecture of PRINCE Cipher for Resource-constrained Applications	IEEE Explorer	https://doi.org/10.1109/GCCIT63234.2024.10862698
Dr. I. Parthiban	1	Lattice-Aided Delay Phase Precoding for 6G THz Massive MIMO	IGI Global	10.4018/979-8-3693-2786-9.ch018
Dr. S. Lokesh	1	Alcoholic Consumption and Diabetes Prediction using Machine Learning and Deep Learning	IEEE Xplore	10.1109/ICoICI62503.2024.10696501.

Dr. M. Aravindan	1	A Quad Element UWB MIMO Antenna Design for Indoor High Data Rate Communication	Journal of Engineering Science and Technology	DOI:10.25103/jestr.176.09
Dr. V. N. Arumbu	1	Smart Parking Infrastructure: RFID, IoT, Mobile App and Google Maps Integration for seamless Navigation	Journal of electrical systems	
S.T.Aarthy	2	IoT-Embedded Smart Clothing with CNN for Improved Spatial Awareness in the Visually Impaired	IEEE Xplore	https://doi.org/10.1109/ICoICI62503.2024.10696649
		Optimizing Hospital Stay Duration Prediction using IoT and Linear Regression Techniques	IEEE Xplore	10.1109/ICSES63445.2024.10763114
Dr. G. Gulothungan	4	Peptide drugs and their use in surgical treatments	International journal of surgery open	10.1097/IO9.0000000000000152
		Developing Simulink Model of Microgrid Energy Management System and Optimizing Electricity Cost Using Linear Optimization Approach	Communications in Computer and Information Science	https://doi.org/10.1007/978-3-031-82386-2_6
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		Robotic-assisted bariatric surgery improves accuracy and patient safety	International journal of Surgery open	DOI: 10.1097/IO9.0000000000000270
Dr.N.Veni	1	Automatic Detection of Thyroid Nodules in Ultrasound Images using Convolutional Neural Networks for Early Cancer Diagnosis	IEEE Xplore	https://doi.org/10.1109/ICAIQSA64000.2024.10882379
Dr. Praveen kumar S	1	Internet of Things Integrated Deep-Learning Algorithms Monitoring and Prediction Abnormalities in Agriculture Land	Internet of Things	https://doi.org/10.1002/itl2.607