School of Electrical and Communication

Department of Electronics and Communication Engineering

Faculty Publication Details During the Calendar Year 2025

Sl.Number	Faculty ID	Faculty Name	Title	Document Type
1	TTS1246	Dr. Selwin Mich Priyadharson. A	A Review on VLSI Implementation of Proactive Noise Mitigation System for IoT Application	Conference paper
2	TTS1246	Dr. Selwin Mich Priyadharson. A	Recurrent adaptive wavelet-enhanced noise removal with synchronized major-minor voltage regulator for smart grid meter IC	Article
3	TTS2782	Dr. Valliammai. M	A High Sensitive Nanomaterial Coated Side Polished Fiber Sensor for Detection of Cardiac Troponin I Antibody	Article
4	TTS3310	Dr. Bakiya. A	Segmentation Of Neutrophil Nucleus in White Blood Cell Images Using Kapur's entropy based Improved Grey Wolf Optimization	Conference paper
5	TTS1323	Dr. Vignesh Prasanna . N	Energy-Efficient Clustering in Wireless Sensor Networks Using Sine-Based Initialization Dynamic Refinement and Mutation-Driven Enhanced Moth-Flame Optimization	Conference paper
6	TTS1323	Dr. Vignesh Prasanna . N	Implementing Digital Twins in Intelligent Control Systems for Real-Time Energy Optimization	Conference paper

			Intelligent Charge Controllers for EVs Using Whale Optimization Algorithm for Demand Management	
7	TTS1665	Dr. C. R. Bharathi	Intelligent Charge Controllers for EVs Using Whale Optimization Algorithm for Demand Management	Conference paper
8	TTS1665	Dr. C. R. Bharathi	An Inclusive Review and a Conceptual Framework for Prediction of Sinks and Trust-Aware Routing in IoT-Based Wireless Sensor Networks	Book chapter
9	TTS1665	Dr. C. R. Bharathi	A Novel Hybrid Algorithm for Automated Schizophrenia Detection using EEG Signals and Deep Learning	Conference paper
10	TTS1665	Dr. C. R. Bharathi	Deep Learning-Driven Adaptive Band Selection for Efficient Hyperspectral Image Analysis	Conference paper
11	TTS1665	Dr. C. R. Bharathi	Artificial Intelligence Aerospace Based Penetrating Denial of Service Attack in Wireless Sensor Network	Book chapter
12	TTS1665	Dr. C. R. Bharathi	Artificial Intelligence Based Habitual and Average DoS Attack Detection in Avionics and Necessity Estimators in Wireless Ad Hoc and Sensor Networks	Book chapter
13	TTS1665	Dr. C. R. Bharathi	Algebraic Topology in Modern Cryptography: A Cross-Disciplinary Perspective	Article
14	TTS1665	Dr. C. R. Bharathi	Design and characterization of compact dual-band wearable antenna for wireless healthcare applications	Article
15	TTS1665	Dr. C. R. Bharathi	A Novel Taconic Semi Flexible Wearable Antenna for WBAN Applications	Article

16	TTS1665	Dr. C. R. Bharathi	Advanced wireless fetal monitoring system using STBC, early FECG prediction, and high-efficiency encryption hardware	Article
17	TTS1850	Dr. S. Vinson Joshua	Secure Audio Steganography with Reversible Data Hiding and Encryption	Conference paper
18	TTS1850	Dr. S. Vinson Joshua	Shallow Convolutional Neural Network for Defect Classification in Composite Materials Using Terahertz Images	Conference paper
19	TTS1850	Dr. S. Vinson Joshua	Design of a Solar-Wind Hybrid Renewable Energy System for Power Quality Enhancement: A Case Study of 2.5 MW Real Time Domestic Grid	Article
20	TTS1850	Dr. S. Vinson Joshua	Ensemble deep learning model for early diagnosis and classification of Alzheimer's disease using MRI scans	Article
21	TTS1850	Dr. S. Vinson Joshua	A Comparative Study of Computational Intelligence Algorithms for Fault Detection in Smart Grids	Conference paper
22	TTS1850	Dr. S. Vinson Joshua	Optimized Power Delivery and Generation in Smart Grids Using Reinforcement Learning-Based Energy Dispatch Strategies	Conference paper
23	TTS1851	Dr. Ambika Bhuvaneswari. C	TSCE and CD-CATL Driven Framework for Robust and Real-Time Voice Disorder Detection and Classification	Article
24	TTS1952	Dr. R Hushein	Deep Learning-Driven Novel Energy Conversion Frameworks for Smart Grid Applications	Conference paper

25	TTS1952	Dr. R Hushein	Integrating AI and IoT for Smart Antenna Systems in 5G Networks	Conference paper
26	TTS1952	Dr. R Hushein	Reinforcement Learning for Autonomous Control in Renewable Microgrids	Conference paper
27	TTS1952	Dr. R Hushein	AI-Powered Production Forecasting and Optimization of Energy Generation in Smart Grid Technologies	Conference paper
28	TTS1952	Dr. R Hushein	Adaptive Energy Management Systems for Smart Grids: A Hybrid Approach Using Machine Learning and IoT Integration	Conference paper
29	TTS1952	Dr. R Hushein	Microgrid reliability assessment and enhancement	Book chapter
30	TTS2024	Dr. D. Dileepan	Compact CPW Fed Tri-Band Antenna for IOT and 5G Applications	Conference paper
31	TTS2024	Dr. D. Dileepan	Parallel Processing of Sobel Edge Detection on FPGA: Enhancing Real-Time Image Analysis	Article
32	TTS2057	Dr. Vinoth Kumar. V	A Hybrid Machine Learning Approach for Top-N Bike Recommendations	Conference paper
33	TTS2057	Dr. Vinoth Kumar. V	Predicting Box Office Success: A Transformer-Based Multi-Modal Approach	Conference paper
34	TTS2057	Dr. Vinoth Kumar. V	ElephantGuardNet: A Comprehensive Solution for Elephant Conservation and Human-Elephant Conflict Reduction	Conference paper
35	TTS2057	Dr. Vinoth Kumar. V	Hybrid Deep Learning for International Trading: Integrating LSTM and Transformer Models	Conference paper

36	TTS2057	Dr. Vinoth Kumar. V	IoT-Enabled Smart System for Personalized Health Management with Semantic Technologies	Conference paper
37	TTS2057	Dr. Vinoth Kumar. V	Hybrid Routing and Energy Management for Performance Optimization in Mobile Ad-hoc Networks	Conference paper
38	TTS2057	Dr. Vinoth Kumar. V	RhinoGuardNet: An Integrated Deep Learning System for Monitoring, Movement Prediction, and Threat Detection in Javan Rhino Conservation	Conference paper
39	TTS2057	Dr. Vinoth Kumar. V	An AI-Driven Cybersecurity Framework for the Internet of Medical Things: A Hybrid LSTM-CNN-GAN Approach	Conference paper
40	TTS2057	Dr. Vinoth Kumar. V	Deep Neural Networks for Advanced Medication Security in IoT-Enabled Smart Robotic Dispensing Cabinets	Conference paper
41	TTS2057	Dr. Vinoth Kumar. V	Leveraging Transfer Learning with MobileNetV2 for Amla Leaf Spot Disease Detection in Agricultural Imagery	Conference paper
42	TTS2057	Dr. Vinoth Kumar. V	High-Precision Plant Pathology using ResNet101 for Detection of Stem Canker and Dieback in Dragon Fruit	Conference paper
43	TTS2057	Dr. Vinoth Kumar. V	AI-Augmented Fetal Health Monitoring: A Cloud-based Secure Deep Learning Approach	Conference paper
44	TTS2057	Dr. Vinoth Kumar. V	Advancing Disc-Based Pythagorean Fuzzy Sets with Distinct Radii	Article

45	TTS2057	Dr. Vinoth Kumar. V	Hybrid Machine Learning Approach for Early Stroke Prediction in Elderly People	Article
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48	TTS2196	Dr. Kavitha. T	5G Ready: A Compact Two-Port Antenna for Sub-6GHz Applications	Conference paper
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51	TTS2196	Dr. Kavitha. T	Real-Time Monitoring and Early Detection of Earthquakes Through Wireless Sensor Networks in IOT	Conference paper
52	TTS2196	Dr. Kavitha. T	An IoT Based Mini Healthcare Kit for Smart Personal Health Monitoring	Conference paper
53	TTS2196	Dr. Kavitha. T	Computer Simulations of Air Pollution's Impact on New Delhi's Quality of Life and Health Risks	Book chapter
54	TTS2196	Dr. Kavitha. T	Bandwidth improvement using C stub in simple compact monopole antenna for wireless applications	Book chapter
55	TTS2196	Dr. Kavitha. T	Implementing an RSSI-based localization algorithm for Alzheimer's disease in smart	Book chapter

			home systems using wireless sensor networks	
56	TTS2196	Dr. Kavitha. T	5G network based spectrum analysis for mm-wave and sub 6 GHz	Book chapter
57	TTS2196	Dr. Kavitha. T	Design and implementation of heart patient health monitoring system using IoT	Book chapter
58	TTS2196	Dr. Kavitha. T	AR/VR-based object detection for blind people using 5G communication	Book chapter
59	TTS2196	Dr. Kavitha. T	Analysis of H-Shaped Slot MIMO antenna for Wireless Communication Applications	Article
60	TTS2196	Dr. Kavitha. T	CitZO-SVM: Machine Learning-Based Spectrum Sensing and Channel Allocation for Cognitive Radio Networks	Article
61	TTS2196	Dr. Kavitha. T	Adaptive Dual-Band Antenna for 5G and ITS Applications with Monopole-to-Broadside Radiation Characteristics	Article
62	TTS2198	Dr. Shiyamala. S	Hyperspectral Image Compression Using Lightweight Deep Learning for Onboard UAV Applications	Article
63	TTS2198	Dr. Shiyamala. S	Real-Time Adaptive Rate Control for Hyperspectral Image Compression on FPGA	Article
64	TTS2198	Dr. Shiyamala. S	Phase-Locked Loop Applications: A Comparative Analysis of Charge Pump Topologies	Conference paper

65	TTS2198	Dr. Shiyamala. S	Comparative Analysis of Phase Detector Architectures for High-Speed, Low-Power PLLs in Synopsys 14nm Technology	Conference paper
66	TTS2198	Dr. Shiyamala. S	FPGA implementation of canny edge detection algorithm for image processing	Conference paper
67	TTS2207	Dr. Farithkhan. A	Machine Learning Assisted Monopole Antenna Optimization Using EONNC and SFIS Algorithm for Wearable Applications	Article
68	TTS2338	Dr. Suresh. P	Deep-ATM DL-LSTM: A novel adaptive thresholding model with dual-layer LSTM architecture for real-time driver drowsiness detection using skin conductance signals	Article
69	TTS2338	Dr. Suresh. P	Enhancing emotion recognition through multi-modal data fusion and graph neural networks	Article
70	TTS2338	Dr. Suresh. P	Enhancing the efficiency of hybrid parabolic and parabolic trough concentrators for dual solar applications	Article
71	TTS2338	Dr. Suresh. P	Hybrid CNN-transformer architecture for enhanced EEG-based emotion recognition: capturing local and global dependencies with self-attention mechanisms	Article
72	TTS2421	Dr. Mazher Iqbal. J.L	Implementing Machine Learning for Early Detection and Prognostic Modeling of Chronic Diseases	Conference paper

73	TTS2467	Dr. Imran Javeed. S	Next-Generation Rural Connectivity: Hybrid Beamforming in Low-Frequency Networks	Conference paper
74	TTS2467	Dr. Imran Javeed. S	Deep Learning Models for Acoustic Monitoring of the Himalayan Monal and Other Elusive Bird	Conference paper
75	TTS2467	Dr. Imran Javeed. S	Advancing Urban Traffic Control with IoT and Deep Learning: A YOLOv8 and LSTM-based Adaptive Signal System	Conference paper
76	TTS2467	Dr. Imran Javeed. S	Design of SHF Super Wideband Antenna for 5G and 6G mm-Wave Cognitive Radio Network Applications	Book chapter
77	TTS2510	Dr. Ezilarasan.M.R	Distributed Stochastic Learning for Composite Sharing Optimization in Consumer Electronics	Article
78	TTS2557	Dr. Vishnukumar. S	Factors Influencing Employee Retention in the it Sector: A Comprehensive Review of Recognition, Compensation, Work Environment, and Job Autonomy	Article
79	TTS2557	Dr. Vishnukumar. S	An Intelligent IoT Attack Detection Model Using Weighted ELM and Educational Achievement Guided Optimization	Conference paper
80	TTS2637	Dr. Diana Earshia. V	A Sophisticated Iterative Weighted Feature Selection (IWFS) Based Spiking Imperialist Competitive Recurrent Neural Network (SICRNN) Classification Model for Credit Card Fraud Detection	Article

81	TTS2637	Dr. Diana Earshia. V	Attention-Driven Hierarchical Federated Learning for Privacy-Preserving Edge AI in Heterogeneous IoT Networks	Article
82	TTS2662	Dr. Aloy Anuja Mary. G	Automatic car crash recognition and messaging system	Conference paper
83	TTS2662	Dr. Aloy Anuja Mary. G	An Efficient Location Signature Generation-Based Localization Framework Using Flog Algorithm in Wireless Sensor Networks	Article
84	TTS2662	Dr. Aloy Anuja Mary. G	SIW Cavity-backed Gain-enhanced Circularly Polarized Metamaterial-loaded Dual-band MIMO Antenna for WLAN and 5G Applications	Article
85	TTS2716	Dr. Vinodh Kumar. N	FPGA-Based Design of Ultra-Efficient Approximate Adders for High-Fidelity Image Processing: A Logic-Optimized Approach	Article
86	TTS2716	Dr. Vinodh Kumar. N	Advancing gallium nitride LED technology: principles, challenges, and future directions	Review
87	TTS2716	Dr. Vinodh Kumar. N	Exploring progress in β-(AlxGa1-x)2O3/β-Ga2O3 heterojunction technology: A critical analysis of emerging power electronics and high-frequency applications	Review
88	TTS2737	Dr. Jana. S	AUTOMATIC SEGMENTATION OF SPONDYLOLISTHESIS AND SCOLIOSIS OF X-RAY IMAGES USING LIGHTWEIGHT RESUNET ARCHITECTURE	Article
89	TTS2737	Dr. Jana. S	DeepSDC: An Efficient Deep Neural Network based Spinal	Conference paper

			Disease Classification using ResNet152 Model	
90	TTS2737	Dr. Jana. S	Review: Machine Learning based Lung Diseases Classification by Using Chest X-Ray Image	Conference paper
91	TTS2737	Dr. Jana. S	SpinalDeepRS152: Classification and Prediction of Multi Class Spinal Diseases with Deep Residual Neural Network - ResNet152	Conference paper
92	TTS2737	Dr. Jana. S	Interval-Valued Neutrosophic Set with Optimization Algorithm for Cyberthreat Detection and Classification in IoT Infrastructure	Article
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94	TTS2737	Dr. Jana. S	A Comparison of Different Deep Learning Models for Plant Leaf Disease Detection	Conference paper
95	TTS2737	Dr. Jana. S	Dynamic Object Detection and Tracking System on Unmanned Aerial Vehicles for Surveillance Applications Using RegionViT-Based Adaptive Multi-Scale YOLOv8	Article
96	TTS2780	Dr. R. Sreelakshmy	Artificial Intelligence-Powered Antenna Design for 6G and Beyond Wireless Communication	Conference paper
97	TTS2780	Dr. R. Sreelakshmy	Design of a Circular Loop Antenna for 5G Millimeter-Wave Application Using Genetic Optimization Algorithm	Conference paper

98	TTS2780	Dr. R. Sreelakshmy	Maximizing Performance in Wireless Mobile Ad-Hoc Networks Through Unconventional Routing Strategies	Article
99	TTS2780	Dr. R. Sreelakshmy	IoT Enabled Smart Street Light and Air Quality Control	Conference paper
100	TTS2780	Dr. R. Sreelakshmy	Isolation Enhancement Based on TM010 and TE30 Mode Characteristics in a Patch Antennas Using Genetic Algorithm Optimization for Ku-Band Applications	Article
101	TTS2781	Dr. Sambath Kumar. K	Real-Time Driver Drowsiness Detection System using IoT-based Physiological Monitoring and Web Interface	Conference paper
102	TTS2781	Dr. Sambath Kumar. K	A Scalable Hybrid Model for Detecting UPI Transaction Fraud in Real-Time	Conference paper
103	TTS2786	Dr. B. Venkataramanaiah	Deep Learning-Enabled Fault Diagnosis for Industrial IoT Networks: A Federated Learning Perspective	Article
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105	TTS2786	Dr. B. Venkataramanaiah	Enhancing Network Security Intrusion Detection and Real-Time Response With Long Short-Term Memory Networks	Article
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108	TTS2786	Dr. B. Venkataramanaiah	Design and Implementation of Selective Adaptive Pipeline Structure for Low Power RISC Processor Applications	Conference paper
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123	TTS2808	Dr. Kalpana Devi. P	A deep learning approach for brain tumour classification and detection in MRI images using YOLOv7	Article
124	TTS2822	Dr. Valarmathi. R.S	Advanced Multiplier Architecture Optimization for Accelerated Arithmetic Operations and its Integration in Wireless Sensor Network Applications	Article
125	TTS2822	Dr. Valarmathi. R.S	Optimal Realization of Parallel MAC-Based Adaptive FIR Filter Using a Gaussian Mutation on Quantum-Behaved Particle Swarm Optimization Algorithm	Article
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127	TTS2824	Dr. Chadalavada Mohan Sai Kumar	Hierarchical Siamese-Swin Transformer Network with Deep Difference Discrimination Model for Aerial Image Change Detection	Conference paper
128	TTS2827	Dr. Mutharasan. A	Federated Learning-Based Energy Management Systems for Privacy-Preserving Demand Forecasting in Smart Cities	Conference paper
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132	TTS2862	Dr. Balaji. L	High Performance Computing Models in Electric Vehicles using Artificial Intelligence	Conference paper
133	TTS2862	Dr. Balaji. L	INTELLIGENT VERSATILE VIDEO CODING VIDEO DELIVERY OVER 5G: MASSIVE MULTIPLE-INPUT, MULTIPLE-OUTPUT BEAMFORMING MEETS AI-DRIVEN RESOURCE ALLOCATION FOR OPTIMAL SPECTRAL EFFICIENCY	Article
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135	TTS2862	Dr. Balaji. L	Implementation of Microprocessor Based Automated Assessment Systems Using IoT	Conference paper

136	TTS2862	Dr. Balaji. L	A Blockchain-Enabled AI and IoT Framework for Smart Travel Safety and Automated Emergency	Conference paper
137	TTS2862	Dr. Balaji. L	Residue super-resolution convolutional neural network based complexity reduction for H.266 VVC intra-coding	Article
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139	TTS2866	Dr. Hari Krishana Paik	Design of Planar Artificial Magnetic Conductor for Bandwidth and Gain Enhancement of Ku-Band Patch Antenna	Conference paper
140	TTS2866	Dr. Hari Krishana Paik	SADEA-Tuned Broadband Circularly Polarized Metasurface-Inspired Monopole Antenna for Next-Generation Wireless Applications	Article
141	TTS2866	Dr. Hari Krishana Paik	Design of a Wideband Metamaterial-Inspired Microwave Absorber Implementing Anti-symmetric Geometry for Radar Installation Applications	Conference paper
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143	TTS2866	Dr. Hari Krishana Paik	A six-port High Isolation millimeter wave MIMO antenna based on Array-antenna Decoupling Surface for Next-Generation Wireless Networks	Article

144	TTS2904	Dr. Kanmani Ruby. E. D	Exploring Deep Learning Methods for Accurate Bridge Crack Detection: A Comparative Study	Conference paper
145	TTS2904	Dr. Kanmani Ruby. E. D	Experimental Analysis of Improved AODV Protocol with Automatic Route Guidance Method in Vehicular Communication	Conference paper
146	TTS2904	Dr. Kanmani Ruby. E. D	An improved distance vector hop algorithm and A* algorithm with modified supernova optimizer for 3-dimensional localization in wireless sensor networks	Article
147	TTS2904	Dr. Kanmani Ruby. E. D	Compact circularly polarized dual band antenna with modified patch for ISM and V2X communication systems	Article
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149	TTS2910	Dr. Lordwin Cecil Prabhakar. M	Machine Learning-Enabled Battery Management System on FPGA for Electric Vehicles	Article
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156	TTS2953	Dr. B. Sathyasri	Optimizing intra-layer data communication with adaptive beamforming for proactive flow control in wireless network-on-chip	Review
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177	TTS3041	Dr. C. Kanmani Pappa	Rainfall Prediction Using Machine Learning Techniques	Conference paper

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180	TTS3060	Dr. Manimaraboopathy. M	Fiber optic system dispersion compensation management within optical fiber communication channels through the control of all hybrid optical amplifiers: simulative study	Article
181	TTS3060	Dr. Manimaraboopathy. M	High speed optical modulation fiber systems for ultra high spectral efficiency improvement through the digital shift keying techniques employment	Article
182	TTS3060	Dr. Manimaraboopathy. M	High speed data rate multi ultra-low loss core pure silica fibers with maximum potential capacity based on high Raman amplifier bandwidth	Article
183	TTS3060	Dr. Manimaraboopathy. M	Soil Fertility Prediction Using Spatiotemporal Graph Neural Networks	Article
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185	TTS3096	Dr. Britto Pari. J	A HYBRID FRAMEWORK FOR OBJECT DETECTION AND SEGMENTATION IN AUTONOMOUS VEHICLES USING YOLO NAS AND MASK R-CNN	Article
186	TTS3096	Dr. Britto Pari. J	An Improved Coefficient Decimation Approach Using MAC to Achieve Low Complexity FIR Filters	Conference paper
187	TTS3096	Dr. Britto Pari. J	An Optimized Hybrid Approach to Denoising of EEG Signals Using CNN and LMS Filtering	Article
188	TTS3096	Dr. Britto Pari. J	An area efficient FPGA design for EEG signal denoising using LMS adaptive filtering and Teager–Kaiser energy operator	Article
189	TTS3096	Dr. Britto Pari. J	Visual Perception and Adaptive Scene Analysis with Autonomous Panoptic Segmentation	Article
190	TTS3128	Dr. Oudaya Coumar. S	Effective Enhancement of Quality of Service Through Data Traffic Minimization In 5G Open Radio Access Backhaul Networks	Article
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193	TTS3128	Dr. Oudaya Coumar. S	Realization of fractal resonator cells developed on substrate-integrated waveguide for S-band filter applications	Article

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