

SRM VALLIAMMAI ENGINEERING COLLEGE
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
STAFF PUBLICATION DETAILS- 2025

S.No	Authors	Title	Year	Source title	Volume, Issue, Page Nos	SCI/Scopus
1	S L.; P S.; S T.; M M.; G U.	IoT-powered wearable assist device for visually impaired	2025	Disability and Rehabilitation: Assistive Technology		SCI
2	Sathiyavathi S.; Udhayakumar G.	Improved Prenatal Brain Anomaly Detection Using Xception Architecture with Attention Mechanisms and Region-Based Segmentation	2025	Proceedings of the 11th International Conference on Bio Signals, Images, and Instrumentation, ICBSII 2025		Scopus
3	Pavithra P.; Ramesh S.; Dhananjeyan R.; Jenesha P.; Marietta D.F.; Ishwerya V.	TeraHertz Metamaterial Absorber using Circular Split Ring Resonator for Biomedical Applications	2025	Proceedings of 2025 1st International Conference on Radio Frequency Communication and Networks, RFCoN 2025		Scopus
4	Dhananjeyan R.; Ramesh S.; Kumar D.R.; Kumar O.P.	Compact octagonal MIMO antenna system for broadband applications with enhanced isolation and wideband performance	2025	Scientific Reports	15,1	SCI
5	Amalan V.S.Y.; Subramaniam R.; Kumar S.S.S.; Sivathanu C.	Dual Band Reflectarray for Transmitter/Receiver Ground Station Drone Tracking Applications; [Dvopasovni odsevni niz za oddajnik/sprejemnik zemeljske postaje za sledenje dronov]	2025	Informacije MIDEM	55,2	Scopus

6	Pavithra P.; Subramaniam R.	A novel graphene-based THz absorber using triangular split ring resonator for carcinoma detection	2025	Physica Scripta	100,5	SCI
7	Subramani S.; Subramaniam R.	An eight-element conformal MIMO antenna for 5G-enabled Internet of Medical Things (IoMT) communications	2025	International Journal of Microwave and Wireless Technologies		SCI
8	Pavithra P.; Ramesh S.; Dhananjeyan R.; Rose M.K.S.; Hemalatha T.; Mythili R.	Performance Analysis of Bow-tie Antenna with CSRR Metamaterial for S and C band Applications	2025	Proceedings of 2025 1st International Conference on Radio Frequency Communication and Networks, RFCoN 2025		Scopus
9	Namath S.; Rajamohan K.; Subramaniam R.; Alagarsamy V.	Flexible dual-band antenna for ISM/5G enabled MIMO systems with pattern diversity for wireless body area networks	2025	International Journal of Microwave and Wireless Technologies	17,1,83-91	SCI
10	Sheeba R.D.S.T.; Judson D.; Joshiba J.M.	Polyimide-Based Microstrip Antenna for Real-time Arterial Pulsation Detection and Blood Pressure Monitoring	2025	Proceedings of 2025 International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication, IConSCEPT 2025		Scopus
11	Agnel Livingston L.G.X.; Judson D.; Aruchamy P.	A reliable character recognition model based on hybrid feed forward back-propagation neural network and adaptive cuckoo search optimization algorithm	2025	Sadhana - Academy Proceedings in Engineering Sciences	50,4	SCI
12	Judson D.; Aswathy K.A.	Performance enhancement of MIMO SC-FDMA system with reduced complexity using DST for wireless image transmission	2025	Sadhana - Academy Proceedings in Engineering Sciences	50,2	SCI

13	Allen Ronald A.; Abdul Hadi S.; Cibi Sakresh P.U.; Subhashini N.	Real-Time Environmental Monitoring using ESP-NOW-based Wireless Sensor Network for Sustainable Agriculture	2025	Proceedings - 2025 5th International Conference on Expert Clouds and Applications, ICOECA 2025	281-285	Scopus
14	Saravanakumar C.; Subhashini N.	Sonified Cryptography: Secure Text Encoding with DNA and Non-Speech Audio	2025	Jurnal RESTI	9,4,832-839	Scopus
15	Balaji S.; Amali C.; Kanniyappan N.; Soorya Priya G.; Hassan I.H.; Veena V.S.	Energy-Efficient Wireless Communication Systems Powered by Renewable Energy Sources	2025	Recent Advances in Smart Communication Technologies for a Sustainable Future	137-164	Scopus
16	Amali C.; Thenmathi S.; Sudha S.; Subikshana M.	Smart LPG Leak Detection and Automatic Shutdown System	2025	6th International Conference on Innovative Trends in Information Technology: Secure, Trustworthy and Socially Responsible AI, ICITIIT 2025		Scopus
17	Thanraj V.; Preethi S.R.; Thiraviya Sundararamam S.; Veeramani S.; Vengadesh R.	Sustainable Agriculture Through IoT Based Plant Disease Identification and Crop Management Using Deep Learning	2025	6th International Conference on Innovative Trends in Information Technology: Secure, Trustworthy and Socially Responsible AI, ICITIIT 2025		Scopus
18	Preethi S.R.; Chinniah P.; Ezhilarasi P.; Lakshmi T.R.V.	Optimized quantum self-attention neural network for biomedical tongue colour image analysis disease diagnosis and classification in Internet of Things	2025	Nano Communication Networks	46	SCI
19	Sambandam Raju P.; Woodward D.; Prasad R.G.; Muniyandy E.	Smart IoT-Cloud Healthcare System for Heart Disease Detection using Hierarchical Auto-Associative Polynomial Convolutional Neural Network	2025	Smart Health	38	SCI

20	Vasiyullah Khan M.; Preethi Sr.; Vignesh G.; Vijay M.; Vikram R.	Green Computing Based V Ally Shopping Dray	2025	2025 International Conference on Computing and Communication Technologies, ICCCT 2025		Scopus
21	Reddy M.; Sheela D.; Premalatha J.; Jayasudha F.V.	A High Gain Antipodal Vivaldi Antenna Enabled by a High Dielectric Superstrate for Wideband Applications	2025	International Journal of Communication Systems	38,4	SCI
22	Abisha B.; Kumari V.S.; Premalatha J.; Jothy N.; Suresh Kumar V.	AI-Driven Network Forensics: Ensuring Evidence Integrity with Merkle Tree-Based Tamper-Proof Logging	2025	2025 International Conference on Computing Technologies, ICOCT 2025		Scopus
23	Saravanakumar C.; Mohanakrishnan E.; Manoj Kumar D.; Jayasri K.; Jobitha Lakshmi J.	Efficient Design and Functional Testing of a 32-Bit RISC Processor in Verilog	2025	International Conference on Smart Systems for Applications in Electrical Sciences, ICSSSES 2025		Scopus
24	Saravanakumar C.; Mohanakrishnan E.; Manoj Kumar D.; Jayasri K.; Jobitha Lakshmi J.	Investigating FPGA Gaming Systems: Real-Time Tic-Tac-Toe with Custom RISC, VGA Output, and Hardware Counters	2025	Proceedings of 5th International Conference on Trends in Material Science and Inventive Materials, ICTMIM 2025	416-421	Scopus
25	Saravanakumar C.; Muthulakshmi S.; Muthu Meena R.; Lokesh Thirumalai R.	Comprehensive Development and Testing of a 32-Bit Floating-Point ALU in Verilog	2025	3rd International Conference on Electronics and Renewable Systems, ICEARS 2025 - Proceedings	8,12	Scopus
26	Saravanakumar C.; Maiti N.; Toure B.; Vidhya B.; Dheepan G.M.K.; Dhanraj J.A.; Shahul A.	Role of IoT in Enhancing Secure Medical Image Transfers	2025	Advanced Secure Transmission of Telemedicine-Based Bio-Medical Images	229-249	Scopus

27	Selvam I.J.; Chandran S.; Chandrasekaran S.	FPGA-based SqueezeNet transformer with multi-scale attention fusion for real-time respiration rate estimation using PPG signals	2025	Journal of Supercomputing	81,9	SCI
28	Saravanakumar C.; Brinda M.; Ashwathi S.; Charumathi A.; Dharshini P.	Next-Generation Integrated 16-Bit Carry Select Adder for Ultra-Low Latency FPGA Arithmetic Units	2025	5th IEEE International Conference on Mobile Networks and Wireless Communications, ICMNWC 2025		Scopus
29	Kumar S.; Chandrasekaran S.; Manogaran N.; Krishna B.	Image encryption and decryption using graph theory	2025	International Journal of Electronic Security and Digital Forensics	17,5,616-630	Scopus
30	Mohanty B.S.; Krishna Priya R.; Alias L.; Vijaya Kumar Reddy R.; Raut P.K.; Isaac S.; Manibharathi D.; Saravanakumar C.; Panda N.R.; Broumi S.	A Neutrosophic Logic Ruled Based Machine Learning Approaches for Chronic Kidney Disease Risk Prediction	2025	Neutrosophic Sets and Systems	79,76-95	Scopus
31	Saravanakumar C.; Marirajan S.; Pandian A.; Durgadevi K.	Advancing Genomic Diagnostics: Fast Fourier Transform Optimization and Machine Learning in Huntington's Disease Detection	2025	Journal of Electronics, Electromedical Engineering, and Medical Informatics	7,2,283-294	Scopus
32	Saravanakumar C.; Subhashini N.	Sonified Cryptography: Secure Text Encoding with DNA and Non-Speech Audio	2025	Jurnal RESTI	9,4,832-839	Scopus
33	Chandrasekaran S.; Chandran S.; Selvam I.J.	FPGA-Based Implementation of Real-Time Cardiologist-Level Arrhythmia Detection and Classification in Electrocardiograms Using Novel Deep Learning	2025	International Journal of Circuit Theory and Applications	53,6,3662-3683	Scopus

34	Murugesan D.; Roslin S.E.	Channel Characterization of Ultra Massive MIMO Systems Utilizing Millimeter Waves For 6G Vehicular Communication	2025	Proceedings - 4th International Conference on Smart Technologies, Communication and Robotics 2025, STCR 2025		Scopus
35	Mariselvam A K.; Jothy N.; Ramasamy V.; Sugumaran B.; Yasar Arafath K.A.; Hussain S.I.	Estimation of Air Pollutant Density in Chennai Using Kernel Density Approach	2025	2025 International Conference on Emerging Technologies in Engineering Applications, ICETEA 2025 - Proceedings		Scopus
36	Abisha B.; Kumari V.S.; Premalatha J.; Jothy N.; Suresh Kumar V.	AI-Driven Network Forensics: Ensuring Evidence Integrity with Merkle Tree-Based Tamper-Proof Logging	2025	2025 International Conference on Computing Technologies, ICOCT 2025		Scopus
37	Sudha T.; Jothy N.; Bharathi V.; Jayagopalan S.	Emo-Tune: Harnessing Emotion-Based Music for Patient Wellness	2025	Lecture Notes in Networks and Systems	1165,219-231	Scopus
38	Saravanakumar C.; Marirajan S.; Pandian A.; Durgadevi K.	Advancing Genomic Diagnostics: Fast Fourier Transform Optimization and Machine Learning in Huntington's Disease Detection	2025	Journal of Electronics, Electromedical Engineering, and Medical Informatics	7,2,283-294	SCI
39	Murugesan A.; Durgadevi K.; Contractor D.; Rathod Y.	Machine learning-driven intelligent voltage control in renewable energy grids	2025	Electric Power Systems Research	248	SCI
40	Abisha B.; Kumari V.S.; Arthi K.; Durgadevi K.; Suresh Kumar V.	AI-Enhanced Network Forensic Techniques for Cybercrime Investigation Using the Gray Wolf Adaptive Forensic Anomaly Detection Algorithm (GADFADA)	2025	2025 6th International Conference for Emerging Technology, INCET 2025		Scopus

41	Saravanakumar C.; Marirajan S.; Pandian A.; Durgadevi K.	Advancing Genomic Diagnostics: Fast Fourier Transform Optimization and Machine Learning in Huntington's Disease Detection	2025	Journal of Electronics, Electromedical Engineering, and Medical Informatics	7,2,283-294	Scopus
42	Pavithra P.; Ramesh S.; Dhananjeyan R.; Jenessa P.; Marietta D.F.; Ishwerya V.	TeraHertz Metamaterial Absorber using Circular Split Ring Resonator for Biomedical Applications	2025	Proceedings of 2025 1st International Conference on Radio Frequency Communication and Networks, RFCoN 2025		Scopus
43	Dhananjeyan R.; Ramesh S.; Kumar D.R.; Kumar O.P.	Compact octagonal MIMO antenna system for broadband applications with enhanced isolation and wideband performance	2025	Scientific Reports	15,1	SCI
44	Dhananjeyan R.; Pant M.; Vishalatchi K.; Janarthanan S.; Sukumar P.; Raja D.S.S.; Kumar D.R.	High-Performance Compact Antenna for Sub-6 GHz 5G MIMO Applications	2025	Progress in Electromagnetics Research C	157,57-63	Scopus
45	Pavithra P.; Ramesh S.; Dhananjeyan R.; Rose M.K.S.; Hemalatha T.; Mythili R.	Performance Analysis of Bow-tie Antenna with CSRR Metamaterial for S and C band Applications	2025	Proceedings of 2025 1st International Conference on Radio Frequency Communication and Networks, RFCoN 2025		Scopus
46	Ramalakshmi R.; Sobhinosannal H.G.; Arunachalam K.P.; Kalidasan A.	Secure healthcare data sharing for the Internet of Things scenario using encryption and optimal routing	2025	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A	48,8,1320-1334	SCI
47	Kalidasan A.; Rajan B C.	CBEAOR: An Energy Aware Optimal Clustering and Routing Protocol for Sustainable IoT Healthcare Networks	2025	International Journal of Communication Systems	38,10	SCI

48	Kalidasan A.; Chidhambararajan B.	A novel energy efficient IoT healthcare system using integrated optimization with authentication mechanism	2025	Wireless Networks	31,8,4787-4810	SCI
49	Shanthi S.; Mahalingam M.	Advanced chest X-ray image classification for early detection and treatment monitoring of respiratory conditions	2025	Biomedical Signal Processing and Control	110	SCI