



K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE - 637 215

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Department of Electronics and Communication Engineering

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JOURNAL PUBLICATIONS

S.No.	Name of the Author(s)	Title of the paper	Name of the Journal	SCI Scopus	Volume/ Issue No	DOIs	Page No.	Year of Publication
1.	Dr.R. Nandakumar Rajesh Arunachalam R Pugalenth Karthikayen Arunachalam	Automatic model of sleep apnea detection using optimized weighted fusion process of hybrid convolution (1D/2D) efficient attention network from EEG signals	Journal on Advances in Signal Processing	SCI	2025/1	https://doi.org/10.1186/s13634-025-01226-7	1-37	2025
2.	Dr.R. Nandakumar S. Deivanayagi S. P. Angeline Kirubha R. Prabu	Recognizing Emotions from Physiological Data in aEeg Signals Using a Novel Deep Learning Technique	Circuits, Systems, and Signal Processing	SCI	44	https://doi.org/10.1007/s00034-024-02961-2	3940-3963	2025
3.	Mr.Thiyagarajan Jayaraman · Dr.C. Gowri Shankar	The Performance Analysis of the Deep Fast Spatial Attention Network for Real-Time Rain Streaks Removal	Arabian Journal for Science and Engineering	SCI	50	10.1007/s13369-025-11012-0	1-16	2025

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4.	Dr.C.Gowri Shankar Dr.K. P. Uvarajan Kishore Balasubramanian	Unveiling the Invisible: Powering Security Threat Detection in WSN With AI	Concurrency and Computation: Practice and Experience	SCI	37 /9-11	https://doi.org/10.1002/cpe.70049	e70049	2025
5.	B. Nancharaiah, Lakshmi Sevukamoorthy, Bhavya G, Dr.T. M. Sathish Kumar, T. R. Vijaya Lakshmi, Swapna Siddamsetti	A Smart Intelligent Internet of Things Framework for Predicting Mental Health	Advanced Theory and Simulations	SCI	8/12	https://doi.org/10.1002/adts.202500048	e00048	2025
6.	A. Sridevi Dr.P. Thilagavathi , S. Senthil Kumar, D. Gowthami	All pass transformation based variable digital filter design using low power approximate floating point adder and low power compressor based approximate multiplier	Integration Supports open access	SCI	102	https://doi.org/10.1016/j.vlsi.2025.102344	-	2025

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7.	Sankarakutti Palanichamy Manikandan, Sandeep Reddy Narani, Sakthivel Karthikeyan , Nagarajan Mohankumar	Deep learning for skin melanoma classification using dermoscopic images in different color spaces.	International Journal of Electrical & Computer Engineering	-	15/1	10.11591/ijece.v15i1.pp319-327	319-327	2025
8.	Shobana Nageswari C.1*, Suresh Y.2, Pravin Kumar M.3, Jothimani M.4	Wavelet-Enabled Reconfigurable On-Chip Antenna System for Ultra-Low-Power Wearable Health Telemetry	National Journal of Antennas and Propagation	-	7/2	doi.org/10.31838/NJAP/07.02.33	252-262	2025
9.	P.Prabaharan K.Radha M.Meena Dr.S.Jayachitra	Target Tracking in a Wireless Sensor Network with Meta-heuristic Optimization for Target Movement Prediction Scheme.	Ad-Hoc and Sensor Wireless Networks	SCI	-	DOI: 10.32908/ahsw.n.v6i1.9313	121-139	2025

CONFERENCE DETAILS:

S.No	Name of the Author(s)	Title of the Paper	Name of the Conference	Conducted by	Date of Conference
1.	Dr.C. Gowri Shankar M.Devika. V. Niveathasaro J.Sivakumar K Venkatapathi Ponnusamy Palanisamy	AI-Driven Platform for Real-Time Assessment and Tracking of Wound Recovery Dynamics	International Conference on Emerging Research in Electronics, Computer Science and Technology	Publisher IEEE Xplore	2025
2.	Mr. P Sivasankar Rajamani Omprakash Gurrapu, Sudha Rajesh; Raxmanov Jurabek; V. Parthiban; T Chandra Sekhar Rao;	Design and Implementation of Selective Adaptive Pipeline Structure for Low Power RISC Processor Applications	International Conference on Data Intelligence and Cognitive Informatics (ICDICI)	Publisher IEEE Xplore	2025
3.	Mr.J.Rameshkumar Mr.R.Veeramani Mr.M.Jothimani B.Gnanasri M.Manju K.Yogeshwari	Detection and Classification of Irregularly Shaped Objects using Machine Learning Algorithms for Improved Accuracy	International Conference on Augmented Intelligence and Sustainable Systems	Publisher IEEE Xplore	2025
4.	Mr.M.Jothimani, Mr.J.Rameshkumar, R.Jeevanantham, D.Kavinraj, K.Kumaresan, S.J.Manikandan,	Traffic Control and Accuracy Improvement of Intrusion Detection in Network using XGBoost Algorithm in Comparison with Gradient Boosting Algorithm	International Conference on Computing Technologies	Publisher IEEE Xplore	2025

S.No	Name of the Author(s)	Title of the Paper	Name of the Conference	Conducted by	Date of Conference
5.	Dr.S.Jayachitra Dr.R.Poornima B.Manikandan G.Sriram M.Vignesh N C Vigneshwar	An Enhanced Solution to Reduce Electromagnetic Radiation Hazards using Open Loop Resonator Structure with Coplanar Waveguide Fed Loop Antenna	International Conference on Trends in Electronics and Informatics	Publisher IEEE Xplore	2025
6.	Mr.T.Marthandan P.Veena R Jeyabarath T. Jayaraja V. Keerthivasan S.Sudharsan	Improved Obstacle Detection and Alert System for the Visually Impaired Using Image Processing and Bluetooth Audio to enhance safe and independent mobility	International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things (AIMLA)	Publisher IEEE Xplore	2025
7.	Mr.T. Marthandan P. Veena R. Jeyabarath A. Sulthan S. Syed Hasan S. Vimal Raj	IOT Based Train Accident Detection System and the Loco-Pilot Health Issue Monitoring Using Yolo Model	International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things (AIMLA)	Publisher IEEE Xplore	2025
8.	Dr.R. Nandha Kumar Dr.S. Premalatha Mr.T. Marthandan R. Logeshwaran P. Dharmasastha K. Sivaperumal	FPGA Based AI Inference Accelerator for Low-End Embedded Systems	International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things (AIMLA)	Publisher IEEE Xplore	2025

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9.	Dr.G. Gowri Shankar Mrs.D. Gowthami M. Sivaprakasam K. Adhisankar R. Nithishkumar P. Naveenkumar	Real Time Rail Vehicle Running State Monitoring System using TinyML and IoT	International Conference on Inventive Material Science and Applications	Publisher IEEE Xplore	2025
10.	Mrs.P. Usha Dr.T. M. Sathish Kumar T. Anukeerthana G. P. Gowre Preya S. Mahalakshmi S. Sangaragomathi	Compact Substrate-Integrated Waveguide (SIW) based MIMO Antenna for Low Loss 5G Sub-Ghz Applications	International Conference on Inventive Material Science and Applications (ICIMA)	Publisher IEEE Xplore	2025
11.	Dr.R.Satheeskumar , S.Suruthi , N.K.Nalin Kumar, K.S.Prem N.Vaseekaran, M.Vigneshwaran ,	Adaptive Rate Limiting for Distributed Denial of Service Mitigation in Software Defined Networks	International Conference on Computing Technologies	Publisher IEEE Xplore	2025

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12.	Dr.P.Govindaraju Mr.M.MArun Prasath, Dr.R.Nandakumar R.Dhanuja K.Sowmiya R.Vignesh	Deep Learning-Driven Health Monitoring System Integrated with Wi-Fi Technology	International Conference on Trends in Electronics and Informatics	Publisher IEEE Xplore	2025
13.	Dr.A.Velliangiri , Dr.R.Eswaramoorthi , S.Gokul , S.Hari Hara Prasath , B.Praveen Kumar , K.Risanth ,	AI Based Fast and Effective Wireless Charging System for Electric Vehicles	International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things	Publisher IEEE Xplore	2025
14.	Dr.R.Nandakumar , Dr.S.Sridevi , J.Gopi , ENaveena , M.Pradeepika , T.Varsha ,	Autonomous drone for high accuracy gender & age detection, location tracking and speech Recognition using machine learning	International Conference on Intelligent Computing and Control Systems	Publisher IEEE Xplore	2025

S.No	Name of the Author(s)	Title of the Paper	Name of the Conference	Conducted by	Date of Conference
15.	Dr.S.Sridevi, Mr. P.Sivasankar Rajamani, D.Pravin, V.Srinivasan, P.Loguprasath, N.Tharun	Advanced CNN-LSTM Edge-computing in Epilepsy Wearables for Real-time Seizure Detection and Extended Battery Life	International Conference on Frontier Technologies and Solutions	Publisher IEEE Xplore	2025
16.	Dr.T.M.Sathish kumar , Mrs.P.Usha , N.Giri velavan , R.Kabilan , B.Meithiru Prakash , E.Karthikeyan ,	Low-Power Wearable Cardiopulmonary Monitoring Device with Seamless Dual-Network Connectivity for Real-Time Health Monitoring	International Conference for Emerging Technology	Publisher IEEE Xplore	2025
17.	Mr.P.Sivasankar Rajamani , Dr.S.Sridevi , K.R.Abhirami Devi, C.Barani , S.Madhumitha , S.Vishnu ,	Optimizing Power and Area in VLSI Design for Pulse Width Modulation Systems using an Adaptive Method	International Conference on Knowledge Engineering and Communication Systems	Publisher IEEE Xplore	2025
18.	Dr.P.S.Periasamy, Mr.R.Veeramani, Mr.J.Rameshkumar, K.KJhanani, E.Vinothini., K.Yasvanthika.,	Comparative Analysis of Design Techniques for Compact Microstrip Patch Antenna to Enhance Bandwidth for 5G Applications at 28 GHz	International Conference on Augmented Intelligence and Sustainable Systems	Publisher IEEE Xplore	2025

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19.	Ms. S. Suruthi, Dr.R.Sathees Kumar, D. Deepak, S. Gopalakrishnan, A. Harish, M. Surya,	Evaluating Deep Learning Approaches for MRIBased Brain Tumor Detection.	International Conference on Inventive Research in Computing Applications.	Publisher IEEE Xplore	2025
20.	Dr.R. Poornima, Dr.S. Jayachitra, A.Ajay, S.Dhivakar, U Indra Kumar . S.P.Jayasakthi	Enhancing Energy Efficiency and Data Rate in MIMO-NOMA Systems Based on Communication Deep Neural Networks for 6G Communications.	International Conference on Research and Development in Information, Communication, and Computing Technologies (ICRDICCT'25 2025)	DOI: 10.5220/0013887100004919 SCITEPRESS - Science and Technology Publications	2025
21.	Dr.C. Gowri Shankar D. Gowthami K. Kathiravan K. Dhanush, K. M. Dharshni C. Lavanya	Performance Comparison of Deep Learning-Based Classification of Skin Cancer	International Conference on Research and Development in Information, Communication, and Computing Technologies (ICRDICCT'25 2025)	DOI: 10.5220/0013909400004919 SCITEPRESS - Science and Technology Publications	2025