



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

ACADEMIC YEAR 2025-2026

FACULTY PUBLICATIONS - International / National Journals

SL. NO	DETAILS
1.	Prateek Nigam, Geethalakshmi Manickam , Jonnalagadda Pavan, R Naveenkumar, Sai Krishna Edpuganti, Atish Baburao Mane & S Kumaran, 'Facile Synthesis of Ce-Doped ZnO@Chitosan Hybrid for Enhanced Visible-Light Degradation of Antibiotics and Antibacterial Applications', Journal of Electronic Materials, June 2026, DOI: https://doi.org/10.1007/s11664-026-12939-2
2.	J Wilson, M Premkumar & T Yuvaraja , 'An Interpretable Intrusion Detection Approach for IoT Using Graph Attention Networks and Transformer Models with Balanced Learning', Technical Gazette (TehnickiVjesnik), vol.33, no. 3, pp. 1056-1063, April 2026, DOI: https://doi.org/10.17559/TV-20250720002849
3.	C Abinaya, E R Kirubashri, S Abisha & M Dharmalingam , 'Fishermen Safety System with Border Detection and Engine Control', International Journal of Engineering Development and Research, Vol. 14, No.2, pp.97-103, April 2026
4.	T Abinaya, K Abirami & R Baskar , 'SDR Enabled Wi-Fi Transmission and Reception Analysis for Smart Building Monitoring' International Research Journal of Modernization in Engineering Technology and Science, Vol. 8, No.4, April 2026
5.	S Sahana, M Sandhiya, S Subha & R S Janani , 'Disaster Management using Li-Fi based on Embedded System', International Journal of Engineering Development and Research, Vol. 14 No. 2, pp. 718-723, April 2026
6.	S Dhanuja, S Dharshini, S Madhumitha & B Umarani , 'Design and implementation of hardware based predictive maintenance system for home automation machines', International Journal of Science, Strategic Management and Technology, Vol. 2, No.4, pp. 1-6, April 2026, DOI: https://doi.org/10.55041/ijsmt.v2i4.075
7.	P Saravanakumar, K Shyam, S Yogeshwaran & B Umarani , 'Integrated solar powered smart agriculture system with Vision-Based surveillance', International Journal of Science, Strategic Management and Technology, Vol. 02 No. 04, pp. 1-6, April 2026, DOI: https://doi.org/10.55041/ijsmt.v2i4.031



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8.	M Pugazhendhi, S Sharan, D VetriSelvan & V Bharathi , 'Employee Performance Classification and Monitoring using Machine Learning Models', International Journal of Science, Strategic Management and Technology, Vol. 02, No. 04, pp. 1-6, April 2026, DOI: https://doi.org/10.55041/ijsmt.v2i4.035
9.	T Dineshkumar , P Ranjithkumar, P M Vishak & S Yukendran, 'Intelligent Network Traffic Prediction using Graph Neural Networks', International Journal for Science and Advance Research in Technology, Vol. 12, No.4, pp. 1-8, April 2026
10.	K Preethi, S Srinithi, S Subavarshini & S Sandhiya , 'AI-Driven Secure Network Authentication with Spatial Trust Validation', International Journal for Science and Advance Research in Technology, Vol. 12, No.4, pp. 18-24, April 2026
11.	R Saravanan, S Sarathi, T Surendhar & S Baskar , 'Intelligent V2X Communication for Urban Traffic Congestion Mitigation', International Journal of Novel Trends and Innovation, Vol. 4 No. 4 pp. a91-a95, April 2026
12.	N S Sujith, M Saktheeswaran, R V Tamil Kumaran & T Yuvaraja , 'Portable Smart device for Drinking Water Quality Analysis, International Journal of Versatile Research and Analysis, Vol. 4 No. 4 pp. 236-241, April 2026
13.	T Dineshkumar , S Bhavanisha, B Deepika & R Karthika, 'Intelligent Retinal Diabetic Retinopathy Detection', International Journal of Engineering Development and Research, Vol 14, No.1, pp. 273-280, March 2026
14.	R S Janani , S Bharat, P Gopurajeyam & M Karthikeyan 'Smart Wheelchair Kit for Paralyzed Patients With Effective EMG and EOG Controls', International Journal of Science, Strategic Management and Technology, Vol.2, Issue.3, pp. 1-6, March 2026, DOI: https://doi.org/10.55041/ijsmt.v2i3.231
15.	R Athul Krishna, S J Deepak, A Fayas Mohamed & S Baskar , 'Approximate Softmax Architecture for Energy-Efficient Deep Neural Networks', International Journal of Science, Strategic Management and Technology, Vol.2, Issue.3, pp. 1-6, March 2026, DOI: https://doi.org/10.55041/ijsmt.v2i3.262
16.	M Geethalakshmi , S Pooja Sri, S R Poovitha & K Sakthi Sri 'AI Integrated VLSI System for Real-Time Pre-Fall and Object Detection in Elderly Care', Journal of Advance and Future Research, Vol.4, No. 3, pp. 454-459, March 2026



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17.	S Saranya , R Prasitha, P Preethi and P Ranjani ‘Automated Fish Feeding System using IoT’, Journal of Advance and Future Research, Vol.4, No.3, pp. 454-459, March 2026
18.	M Sivakumar, I Srikanth, S Vignesh & G Maryam Banu , ‘Human Activity Recognition using mm Wave Radar’, Journal of Advance and Future Research, No.3, pp. 797-801, March 2026
19.	C Naveen, B Praveen, P Vigneshwaran & T Meenal , ‘Machine Learning Based Early Alzheimer’s Disease Detection using Magnetic Resonance Images’, Journal of Advance and Future Research, Vol.4, No.3, pp.729-733, March 2026
20.	M Shalini, P Sindhuja, R Vinisha & A Mohan Kumar , ‘Scalable Real-Time Ethernet Switch with Dynamic Packet Arbitration’, International Journal of Engineering Development and Research, Vol.14, No.1, pp. 884-890, March 2026
21.	M Monika, N Preethi, S Vivekasri & M Geethalakshmi , ‘Intelligent Exam Malpractice Surveillance System with Finger Vein Recognition’, International Journal of Engineering Development and Research, Vol.14, No.1, pp. 971-976, March 2026
22.	T Beni Steena , M Nandhitha Devi, B Dhaaniya Shree & K Subashree ‘Smart Path: Assistive Indoor Navigation for the Visually Impaired Through Li-Fi Technology’, International Journal of Engineering Development and Research, Vol.14, No.1, pp. 805-810, March 2026
23.	K Amudha , R Narmatha, R Saraswathi & P. Subhasri ‘Wall- Penetrating Kinematic Target Detection Using Software-Defined Radio’, International Journal of Versatile Research and Analysis, Vol.4, No.3, pp. 220-226, March 2026
24.	V Nalini, M Vishali & C Srinivasan , ‘A Machine Learning Powered Network Intrusion Detection System for Accurate and Adaptive Cyber Threat Monitoring’, International Journal of Versatile Research and Analysis, Vol. 4 No. 3 pp. 220-226, March 2026
25.	M Geethalakshmi , S Nithish, S Nithish & K Gokul ‘Lung Tumor Segmentation using Visual Geometry Group Networks in MRI Images’, International Journal for Science and Advance Research in Technology, Vol.12, No.3, pp. 5-13, March 2026
26.	P Elayaraja , M Pradeep , B Prathap, & K Saravanan ‘Smart Parking Management System using Embedded Technology’, International Journal for Science and Advance Research in Technology, Vol.12, No.3, pp. 5-13, March 2026



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27.	B Ragul, R Srinath, M Suresh & S Harikumar , 'Design and Implementation of a Refreshable Braille Display using Servo Motor', International Journal of Novel Trends and Innovation, Vol.4, No.3, pp. b98-b104, March 2026
28.	E Prasanth, S Seshadri, S Boopathi & K Yazhini , 'Area -Delay –Power Efficient Carry Select Adder', International Journal for Science and Advance Research in Technology, Vol.12, No.3, pp. 582-587, March 2026
29.	K Yazhini & B Umarani , 'Enhanced Intrusion Detection Using PSO Feature Selection with LSTM Gated RNN Based on Inactive Packet Bit Classification in Active Routing Wireless Transmission' International Journal of Software Engineering and Knowledge Engineering, Vol.36, No.10, pp.1497–1520, March 2026, DOI: 10.1142/S0218194026500087
30.	M Dharmalingam , S Santhiya & V Shobana 'A Real-time Embedded Solution for Intelligent Seed Segregation with Web Visibility', Iconic Research and Engineering Journals, Vol.9, No.8, pp. 741-750, February 2026, DOI: https://doi.org/10.64388/IREV9I8-1714736
31.	S Lalitha , S A Siva, K K Tharun, & G Yohendra Prakash 'Intelligent Traffic Management System using VLSI and Python GUI', Iconic Research and Engineering Journals, Vol.9, No.8, pp. 1700-1706, February 2026, DOI: https://doi.org/10.64388/IREV9I8-1714537
32.	I Anantraj & B Umarani , 'Sensory capabilities of substances analysis of piezoelectricity for healthcare' Mechanics of Advanced Materials and Structures, Vol. 33, No.1, February 2026, DOI: 10.1080/15376494.2025.2601272
33.	Nandhagopal Nachimuthu, Ramya Murugesan, M Dharmalingam & G Prakash, 'Revolutionizing hyper spectral image denoising: a squeezeNet paradigm' Scientific Reports, Article number: 7419, February 2026, DOI: https://doi.org/10.1038/s41598-026-36479-1
34.	Thankaraj Baldwin Immanuel, Rajavelan Muthaiyan, Rathnavel Pounappan, Thankaraj Beni Steena , Suresh Babu Prabakaran Jegathamma & Muthukumar Paramasivan, 'Performance Analysis of Improved High Step-Up Luo Converter for WECS: An Experimental Study', Premier Journal of Science, January 2026, DOI: https://doi.org/10.70389/PJS.100227
35.	N Nandha Gopal, A Vasantharaj, M Dharmalingam , B Balasubramanian, Kamalraj Subramaniam, O Cyril Mathew and A Rajaram 'Tailoring plasmonic effects in organic solar cells through dielectric core-shell nanoengineering' Molecular Crystals and Liquid Crystals, November 2025, DOI: 10.1080/15421406.2025.2575212
36.	Sridhar S R, Akila M & Asokan R , 'Brain Tumor Detection Based on Hybrid Convolutional Adaptive Neuro Fuzzy Inference System Using MRI Image', NMR in Biomedicine, Vol.38 , No.10, October 2025. DOI: https://doi.org/10.1002/nbm.70124
37.	T. Meenal , & R. Asokan , 'Quantum-inspired adaptive feature fusion for highly accurate brain tumor classification in MRI using deep learning', Biomedical Signal Processing and Control, Volume 112, Part C, 108694, September 2025, DOI: https://doi.org/10.1016/j.bspc.2025.108694 .