



# 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 Conference

SL. NO	DETAILS
1.	S Manikandan, D Abinaya, E Sathesh Abraham Leo, K A Pranesh, S Sumathi and <b>V Bharathi</b> , 'A High Gain AI Optimized Dual Active Bridge Converter with Neural Adaptive PID Control for PV Powered Electric Vehicle Fast Charging' International Conference on Intelligent Computing and Control Systems (ICICCS), May 2026, DOI: <a href="https://doi.org/10.1109/ICICCS67901.2026.11502603">10.1109/ICICCS67901.2026.11502603</a>
2.	<b>T Dineshkumar, R Asokan</b> , R Balamurugan, R Abishiek, and P Adiithya, 'Smart Fabric Design and Defect Inspection System' International Conference on Sustainable Computing and Smart Systems (ICSCSS), May 2026, DOI: <a href="https://doi.org/10.1109/ICSCSS64956.2025.11500633">10.1109/ICSCSS64956.2025.11500633</a>
3.	M Seenivasan and <b>M Paranthaman</b> , 'Metamaterial Inspired MIMO Antenna for 5G Applications', International Conference on Wireless Communications Signal Processing and Networking (WiSPNET), April 2026, DOI: <a href="https://doi.org/10.1109/WiSPNET69615.2026.11489458">10.1109/WiSPNET69615.2026.11489458</a>
4.	<b>R Asokan</b> , V Malathy & <b>V Krishnakumar</b> , 'Trust-Aware Secure Routing Framework Using Non-Interactive Proof-of-Storage and Fuzzy Embedded Recurrent Neural Networks for Reliable Communication in Mobile Ad Hoc Networks' International Conference on Visual Analytics and Data Visualization (ICVADV), April 2026, DOI: <a href="https://doi.org/10.1109/ICVADV67766.2026.11469875">10.1109/ICVADV67766.2026.11469875</a>
5.	<b>R Asokan</b> , V Malathy & <b>T Dineshkumar Thangaraju</b> , 'A Cognitive Adversarial Attack-Recovery Architecture for Secu International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI re Multimodal Medical Data Using Deep Steganographic Intelligence)', April 2026, DOI: <a href="https://doi.org/10.1109/ICMSCI67830.2026.11469571">10.1109/ICMSCI67830.2026.11469571</a>
6.	D Sarathkumar, S Arunkumar, Sathishkumar Thirumalaisamy, <b>M Geethalakshmi</b> , D Nageswari, S Rajesh and S Prince Samuel and Murugesan Manivel, 'Cybersecurity Threat Detection and Mitigation in Islanded Microgrids', International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), March 2026, DOI: <a href="https://doi.org/10.1109/SCEECS68810.2026.11429792">10.1109/SCEECS68810.2026.11429792</a>
7.	<b>R Asokan</b> , V Malathy and <b>T Beni Steena</b> , 'Design and simulation of high-speed photonic crystal permutation switch for optical computing', SPIE Conference Proceedings, March 2026, DOI: <a href="https://doi.org/10.1117/12.3108412">https://doi.org/10.1117/12.3108412</a>
8.	J Gokulpriya, P Logeshwari, Thiyagarajan Jeyaraman, R Rajesh Senthil kumar Sengottaiyan and <b>T Yuvaraja Thangavel</b> , 'IoT-Driven Deep Learning Logic to Identify Cardiovascular Diseases using Electrocardiogram Images', International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT), March 2026, DOI: <a href="https://doi.org/10.1109/ICAECT68478.2026.11425035">10.1109/ICAECT68478.2026.11425035</a>



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9.	<b>T Meenal</b> , G Aravinth, G.Sharathkarumbachalam and R Saruges h ‘Stroke Detection & Classification using Deep Learning Technique’, International Conference on Engineering Technology and Science (ICETS’26), March 2026, ISBN : 978-93-342-3290-5
10.	<b>S.Sandhiya</b> , K Preethi, S Srinithi, and S Subavarshini, ‘AI-Driven Secure Network Authentication with Spatial Trust Validation’, International Conference on Engineering Technology and Science (ICETS’26), March 2026, ISBN: 978-93-342-3290-5
11.	<b>R.S. Janani</b> , S Sahana, M Sandhiya and S Subha ‘Disaster Management using LI-FI Based on Embedded System’, International Conference on Engineering Technology and Science (ICETS’26), March 2026, ISBN: 978-93-342-3290-5
12.	<b>C.Srinivasan</b> , V Nalini and M Vishali ‘A Machine Learning Powered Network Intrusion Detection System for Accurate and Adaptive Cyber Threat Monitoring’, International Conference on Engineering Technology and Science (ICETS’26), March 2026, ISBN: 978-93-342-3290-5
13.	<b>T.Yuvaraja</b> , N S Sujith, M Saktheeswaran and R V Tamil Kumaran ‘Portable Smart Device for Drinking Water Quality Analysis’, International Conference on Engineering Technology and Science (ICETS’26), March 2026, ISBN: 978-93-342-3290-5
14.	<b>S.Sandhiya</b> , M Althaf Khan, K Gopi and D Raju ‘Deep Learning Based Screening System for Respiratory Diseases’, International Conference on Engineering Technology and Science (ICETS’26), March 2026, ISBN: 978-93-342-3290-5
15.	<b>M. Dharmalingam</b> , S Santhiya and V Shobana ‘A Real-Time Embedded Solution for Intelligent Seed Segregation with Web Visibility’, International Conference on Engineering Technology and Science (ICETS’26), March 2026, ISBN: 978-93-342-3290-5
16.	<b>P.Elayaraja</b> , V Dharankumar, V Kaviyarasu and M Mohammed Azarudeen ‘Multiple Mode Supporting Floating Point FMA Unit for Deep Learning processors’, International Conference on Innovative Research in Engineering Sciences, (ICIRES-2K26), March 2026, ISBN:978-81-999447-9-4
17.	<b>B Umarani</b> and V Harija ‘Interactive Web-Based Image Forgery Detection Using Machine Learning’, International Conference on Power Systems, Communication Engineering & Management Studies (ICPCMS-2026), March 2026, ISBN: 978-93-5782-349-4
18.	<b>M Paranthaman</b> and M Srinivasan ‘Dual Hexagon Slot Circular Patch Antenna for 5G Applications’, International Conference on Power Systems, Communication Engineering & Management Studies (ICPCMS-2026), March 2026, ISBN : 978-93-5782-349-4
19.	<b>S Lalitha</b> , S A Siva, K K Tharun and G Yohendra Prakash ‘Intelligent Traffic Management System Using VLSI and Python GUI’, National Conference Modern Trends in Engineering and Technology Sciences, March 2026, ISBN: 978-93-5810-233-8
20.	B Ragul, R Srinath, M Sukesh and <b>S Harikumar</b> , ‘Design and Implementation of a Refreshable Braille Display Using Servo Motors’, National Conference Modern Trends in Engineering and Technology Sciences, March 2026, ISBN: 978-93-5810-233-8



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21.	<b>V.Bharathi</b> , M Pugazhendhi, S Sharan and D VetriSelvan ‘Employee Performance Classification and Monitoring using Machine Learning Models’, National Conference Modern Trends in Engineering and Technology Sciences, March 2026, ISBN: 978-93-5810-233-8
22.	<b>S Baskar</b> , R Saravanan, S Sarathi and T Surendhar ‘Intelligent V2X Communication for Urban Traffic Congestion Mitigation’, National Conference Modern Trends in Engineering and Technology Sciences, March 2026, ISBN: 978-93-5810-233-8
23.	<b>G Mariyam Banu</b> , M Sivakumar, I Srikanth and S Vignesh ‘Human Activity Recognition using mm Wave RADAR and IoT’, National Conference on Emerging Trends in Electrical, Electronics, Biomedical Engineering and Sustainable Sciences (NCEEBS 2026), March 2026, ISBN: 978-81-9998-592-6
24.	C Janani, T Kalki, R Lakshmi Praba and <b>T Yuvaraja</b> , ‘Smart Agriculture Robot for Leaf Disease Detection and Soil Health Monitoring using IoT’, International Conference on Advances in Cyber Security and Ethical Hacking (ICACSEH'26), March 2026, ISBN: 978-93-5602-747-3
25.	<b>T Meenal</b> , C Naveen, B Praveen and P Vigneshwaran ‘Machine Learning Based Early Alzheimer’s Diseases Detection using Magnetic Resonance Images’, National Conference on “Advanced Technology and Sustainable Materials in Electronics, Signal Processing, and Circuit Design (NCATSM-26)March 2026, ISBN: 978-93-49019-25-6
26.	P Saravanakumar, K Shyam, S Yogeshwaran and <b>B Umarani</b> , ‘Integrated Solar Powered Smart Agriculture System with Vision Based Drone Surveillance’, National Conference on “Advanced Technology and Sustainable Materials in Electronics, Signal Processing, and Circuit Design (NCATSM-26), March 2026, ISBN: 978-93-49019-25-6
27.	<b>P Elayaraja</b> , M Pradeep, B Prathap and K Saravanan, ‘Smart Parking Management System using Embedded Technology’, National Conference on “Advanced Technology and Sustainable Materials in Electronics, Signal Processing, and Circuit Design (NCATSM-26), March 2026, ISBN: 978-93-49019-25-6
28.	<b>K Amudha</b> , R Narmatha, R Saraswathi and P Subhasri, ‘Wall-Penetrating Kinematic Target Detection using Software-Defined Radio’, National Level Conference on “Advancing Intelligence Using Quantum For Boundless Innovations In Technology” (NCAIQUBIT – 2026), March 2026, ISBN: 978-93-49019-33-1
29.	<b>S Lalitha</b> , C Dharanish, S Dharshan and B Kabilan ‘Cloud Assisted Smart Irrigation System for Efficient Water Utilization’, National Level Conference on “Advancing Intelligence Using Quantum For Boundless Innovations In Technology” (NCAIQUBIT – 2026), March 2026, ISBN: 978-93-49019-33-1
30.	<b>S Hari Kumar</b> , M Mohankumar, M Manojkumar and S Kamalesh ‘AI-Based Non-Invasive Cholesterol and Heart Health Screening Device’ National Level Conference on Advancing Intelligence Using Quantum For Boundless Innovations In Technology (NCAIQUBIT – 2026), March 2026, ISBN: 978-93-49019-33-1



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31.	<b>K.Amudha</b> , N Preethi, S Vivekasri and <b>M Geethalakshmi</b> , ‘Intelligent Exam Malpractice Surveillance System with Finger Vein Recognition’, National Level Conference on “Advancing Intelligence Using Quantum For Boundless Innovations In Technology” (NCAIQUBIT – 2026), March 2026, ISBN: 978-93-49019-33-1
32.	<b>M Geethalakshmi</b> , S Nithish, S Nithish and K Gokul, ‘Lung Tumor Segmentation using Visual Geometry Group Networks in MRI Images’, International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN : 978-93-5592-908-2
33.	<b>S Saranya</b> , S Akash, R Athi Kesavan and S Hari Sashta ‘Robotic Vehicle for Surveillance and Hazardous Zone Operations’, International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN: 978-93-5592-908-2
34.	M Pugazhendhi, S Sharan, D VetriSelvan & <b>V Bharathi</b> , ‘Employee Performance Classification and Monitoring using Machine Learning Models’, International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN : 978-93-5592-908-2
35.	E Prasanth, S Seshadri, S Boopathi and <b>K Yazhini</b> , ‘Area-Delay-Power Efficient Carry Select Adder’, International Conference on Smart Technologies in Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN: 978-93-5592-908-2
36.	R Prasitha, P Preethi, P Ranjani and <b>Saranya S</b> , ‘Automated Fish Feeding System using IoT’, International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN : 978-93-5592-908-2
37.	S Sahana, M Sandhiya, S Subha & <b>R S Janani</b> , ‘Disaster Management using Li-Fi Based on Embedded System’, International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN : 978-93-5592-908-2
38.	<b>S Sandhiya</b> , K Preethi, S Srinithi and S Subavarshini ‘AI-Driven Secure Network Authentication with Spatial Trust Validation’, International Conference on Smart Technologies In Electronics, Computing And Communication Systems (ICSTECCS’26), March 2026, ISBN: 978-93-5592-908-2
39.	<b>K Yazhini</b> , R Kanish, R Karthikeyan and T R Mahasvin ‘Dynamic Computing System using Runtime Partial Reconfiguration’, International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN : 978-93-5592-908-2
40.	S Giridharan, C A Kathiravan, T Kaviyarasan and <b>K Amudha</b> , ‘Secure Wireless Communication for IoT- Based Ambulance Healthcare’, International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN: 978-93-5592-908-2
41.	M Shalini, Sindhuja P, Vinisha R and <b>A Mohan Kumar</b> , ‘Scalable Real-Time Ethernet Switch with Dynamic Packet Arbitration’ International Conference on Smart Technologies In Electronics, Computing and Communication Systems (ICSTECCS’26), March 2026, ISBN : 978-93-5592-908-2



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42.	V Nalini, M Vishali and <b>C Srinivasan</b> , 'A Machine Learning Powered Network Intrusion Detection System For Accurate and Adaptive Cyber Threat Monitoring', International Conference on Smart Technologies In Electronics, Computing And Communication Systems (ICSTECCS'26), March 2026, ISBN : 978-93-5592-908-2
43.	RA Swethaa, P Savitha, M R Sofiya and <b>M Paranthaman</b> , 'An Intelligent IoMT Enabled Emergency Response System with Ambulance Monitoring and Hospital Pre Alerting', International Conference on Smart Technologies in Electronics, Computing and Communication Systems (ICSTECCS'26), March 2026, ISBN: 978-93-5592-908-2
44.	B Ragul, R Srinath, M Suresh and <b>S Harikumar</b> , 'Design and Implementation of a Refreshable Braille Display using Servo Motors', International Conference on Smart Technologies in Electronics, Computing and Communication Systems (ICSTECCS'26), March 2026, ISBN : 978-93-5592-908-2
45.	<b>T Dineshkumar</b> , P Ranjithkumar, P M Vishak & S Yukendran, 'Intelligent Network Traffic Prediction using Graph Neural Networks', International Conference on Smart Technologies in Electronics, Computing and Communication Systems (ICSTECCS'26), March 2026, ISBN : 978-93-5592-908-2
46.	<b>S Lalitha</b> , S A Siva, K K Tharun, G Yohendra Prakash, 'Intelligent Traffic Management System using VLSI and Python GUI', International Conference on Smart Technologies in Electronics, Computing and Communication Systems (ICSTECCS'26), March 2026, ISBN : 978-93-5592-908-2
47.	<b>R Asokan</b> , V Malathy and R Palanikumar, 'Intelligent Bluefin Clustering Protocol (IBCP): An Adaptive Multi-Objective Framework for Energy-Efficient, Low-Latency, and Reliable Wireless Sensor Networks in IoT', International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN), February 2026, DOI: <a href="https://doi.org/10.1109/ICSTSN67075.2025.11397923">10.1109/ICSTSN67075.2025.11397923</a>
48.	Subbiah Swaminathan, A Vijayabrabhu, M Divya, Rowsonara Bgum, <b>T Beni Steena</b> , and R Rajalakshmi, 'Experimental Evaluation of Cirrhosis Prediction System using Artificial Intelligence enabled Hybrid Deep Learning Methodology', International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), February 2026, DOI: <a href="https://doi.org/10.1109/ICECONF65644.2025.11379556">10.1109/ICECONF65644.2025.11379556</a>
49.	S Sudha Merilin, T A Selvakumar, Bopuremash Babu, P Savitha, Rowsonara Begum and <b>G Maryam Banu</b> 'Experimental Evaluation to Detect Child Malnutrition based on Pediatric Visual Data Assessment Using Deep Learning Procedure', International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), February 2026, DOI: <a href="https://doi.org/10.1109/ICECONF65644.2025.11379467">10.1109/ICECONF65644.2025.11379467</a>
50.	<b>R Asokan</b> , V Malathy and <b>T Dineshkumar</b> , 'A Hybrid Chaotic Model with Steganography to Improve Image Security', International Conference on NexGen Networks and Cybernetics (IC2NC), February 2026, DOI: <a href="https://doi.org/10.1109/IC2NC67409.2025.11375976">10.1109/IC2NC67409.2025.11375976</a>
51.	S Samsuden, M Millicent Mabel, H Usha Rani, P Devika, G Karthik and <b>K Amudha</b> , 'A Secured Medical Report Handling and Sharing Mechanism using Blockchain enabled Communication Technology', International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), February 2026, DOI: <a href="https://doi.org/10.1109/ICECONF65644.2025.11379559">10.1109/ICECONF65644.2025.11379559</a>



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52.	T P Ramachandran, K Venkata Abinash Babu, Hebatullah Awwad, P Geethika, N E Chandra Prasad and <b>S Saranya</b> , ‘Swin-Transformer for Automated Segmentation for Vascular Brain Disorders Using Hybrid Machine Learning Methods’, International Conference on Science Technology Engineering and Mathematics (ICONSTEM), February 2026, DOI: <a href="https://doi.org/10.1109/ICONSTEM65670.2025.11374902">10.1109/ICONSTEM65670.2025.11374902</a>
53.	T P Ramachandran, Raihana Parveen R, Thaer Ahmad Abu-Saleem, Murala Praveena, Bhukya Balakrishna and <b>P Elayaraja</b> , ‘A Design for Retinal Image Enhancement with Multi-Scale Feature Extractor and Loss Analysis Using U-Net with ResNet50’, International Conference on Science Technology Engineering and Mathematics (ICONSTEM), February 2026, DOI: <a href="https://doi.org/10.1109/ICONSTEM65670.2025.11374383">10.1109/ICONSTEM65670.2025.11374383</a>
54.	T Venkatamuni, S Ambika, Mani N, Devan P D, <b>B Umarani</b> and S Dhivya, ‘Vision Transformers-Based Weld Imperfection Detection Framework for Quality Control’, International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), February 2026, DOI: <a href="https://doi.org/10.1109/ICECONF65644.2025.11379538">10.1109/ICECONF65644.2025.11379538</a>
55.	Subbiah Swaminathan, Venkata Ramaiah Kavuri, B Shoba, E Padma, S Kaliappan and <b>C P Niranjana</b> , ‘Developing a Deep Learning Powered Classification Logic to Detect Dental Caries Based on Digital Radiographic Images’, International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), February 2026, DOI: <a href="https://doi.org/10.1109/ICECONF65644.2025.11379487">10.1109/ICECONF65644.2025.11379487</a>
56.	S Prathiba, J Bhuvaneshwari, M Murali, R Binisha, B Kiruthika and <b>S Baskar</b> , ‘Leveraging Blockchain Technology to Improve Traceability in Organic Food Supply Chain Management using Deep Learning Technique’, International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), February 2026, DOI: <a href="https://doi.org/10.1109/ICECONF65644.2025.11379486">10.1109/ICECONF65644.2025.11379486</a>
57.	<b>R Asokan</b> , V Malathy and <b>T Dineshkumar</b> , ‘Hybrid Image Security Algorithms for Enhanced Security’, International Conference on Automation, Computing and Renewable Systems (ICACRS-2025), January 2026, DOI: <a href="https://doi.org/10.1109/ICACRS67045.2025.11324109">10.1109/ICACRS67045.2025.11324109</a>
58.	Pranjit Das, S Jeyabharathy, M Suganya, M Sangeetha, <b>N Jayapal</b> and S Sivakumar, ‘Interpreting Machine Learning Models for Cervical Cell Image Classification Using LIME’, International Conference for Advancement in Technology (ICONAT), January 2026, DOI: <a href="https://doi.org/10.1109/ICONAT66879.2025.11362526">10.1109/ICONAT66879.2025.11362526</a>
59.	S Kanishka, S Kowsika, U S Madhumithra and <b>N Jayapal</b> , ‘An Intelligent Deep Learning Approach for Early and Real- Time Alzheimer’s Detection for MRI Images’, International Conference on Innovation & Research In Multidisciplinary Domains (ICIRMD-2026), January 2026, ISBN: 978-93-47785-04-7
60.	<b>T Beni Steena</b> , M Nandhitha Devi, B Dhaaniya Shree and K Subashree, ‘Smart Path: Li-Fi Based Directional Home Navigation for the Visually Impaired’, International Conference on Advancements in 5G and Beyond Wireless Communication and Navigation Systems: Challenges and Opportunities – 2026 (ICAWCNS – 2026), January 2026, ISBN: 978-93-6163-263-1



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61.	<b>T Beni Steena</b> , D Annalakshmi, M Devika and T Keerthana ‘AI-Driven SLA-Aware Traffic Isolation and Dynamic Bandwidth Management Using P4 for 5G Network Slicing’, International Conference on Advancements in 5G and Beyond Wireless Communication and Navigation Systems: Challenges and Opportunities – 2026 (ICAWCNS – 2026), January 2026, ISBN : 978-93-6163-263-1
62.	Kumar, S. and S.Vasanthi, and Balakrishnan, P. and S.Gowtham, and Kumar, S.Senthil and <b>T. Yuvaraja</b> , ‘A Secure and Scalable IoT Architecture for Smart Energy Monitoring in Urban Infrastructure’, 2025 8th International Conference on Computing Methodologies and Communication (ICCMC) Published in IEEE Explore: September 2025. DOI: <a href="https://doi.org/10.1109/ICCMC65190.2025.11140649">10.1109/ICCMC65190.2025.11140649</a>
63.	R. Rajasree, R. Geetha, S. Vidhya, M. A. Mukunthan, <b>S. Hari Kumar</b> and J. A. A, "Comparative Analysis of Feature Engineering-Based Learning and Deep Learning Approaches for Classification Problems on Imbalanced Datasets," 2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0, Raigarh, India, July 2025, pp. 1-6, DOI: <a href="https://doi.org/10.1109/OTCON65728.2025.11070444">10.1109/OTCON65728.2025.11070444</a> .