

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

ECE — Publications From January 2026 to till now

S.No	Name of Author(s)	Title of the Paper	Journal Name/ Name of Conference	Month of Submission	Status
1	Dr. A Theja; Dr.A Vikas	Design of Voting Machine using Verilog HDL	First IEEE International Conference on Intelligent Electronics & Computational System	May-26	Accepted
2	Dr. A Theja; Dr. A Vikas	Design and Performance Analysis of XOR-Toffoli Enhanced RO-PUF For Secure Hardware Authentication	ICONAT 2026	May-26	Accepted
3	Dr. A Theja; Dr. A Vikas	Advanced Si: HfO ₂ Dielectric-Modulated GaSb/SiGe Vertical Junctionless TFET Biosensor with Optimized Tunneling and Sensitivity	Journal of Computational Electronics, Springer Nature	Apr-26	Under Review
4	Dr. M. Jagadeesh Chandra Prasad	Hybrid CNN-Transfer Architecture with Uncertainty Quantification for Intelligent biomedical image Analysis	Springer Nature	Jul-26	Under Review
5	Dr. M. Jagadeesh Chandra Prasad	Energy Efficient Routing In wireless sensor Network		Jul-26	Under Review
6	Mrs. M. Chaitanya	AI-Driven Energy-Efficient VLSI Architectures for Intelligent Edge IoT Systems	Engineering Applications of Artificial Intelligence (Elsevier)	Jul-26	Under Review
7	Mr. M. Sai Krishna	Federated learning -Enabled Anomaly Detection for privacy aware cybersecurity in Wireless Sensor Networks	International Journal of Computer Information Systems and Industrial Management Applications	Jul-26	Under Review
8	Dr.P.VENKATA LAVANYA	Quantum Adaptive Self-Attention Driven Ensemble Framework for Robust Speech Enhancement under Non stationary and Multi-Noise Conditions	IEEE ACCESS	May-26	Revision Requested
9	Dr. P.Gayathri	Aqua Vision DeblurNet: A deep Learning Model for Underwater Image Restoration using Depth Guided Scattering Priors	SCI	Apr-26	Under Review
10	Dr. P.Gayathri, Dr.B.SWAPNA RANI	A Multi Agent Reinforcement Learning Framework for Network Resource Optimization in Internet of Vehicles	Springer	Feb-26	Accepted
11	Dr.B.SWAPNA RANI	Quantum Secure Auth ML: A Hybrid Quantum Machine Learning Framework for Robust authentication next Generation Communication Networks	SCI	Apr-26	Under Review
13	V.Jhansi Reddy	Title: HybridSR-Net: A Dense Residual Channel Attention Network with Laplacian Frequency Guidance for Single-Image Super-Resolution	Journal Name: VFAST Transactions on Software Engineering	Jul-26	Under Review
14	CH.Krishnaveni	A Hybrid Deep learning Framework for Automated EEG -Based Emotion Recognition and Classification	SCI	Aug-26	Under Review
15	G VENKATA SUBBA RAO	Physics-Informed Deep Unfolding Framework for Bearing Fault Diagnosis Under Variable Speed and Load Conditions	Journal: Mechanical Systems and Signal Processing(Elsevier)	Jun-26	Under Review
16	Dr.J SUNITHA KUMARI	Sobel Edge Detection Framework Based Hardware-Software Co-Design FPGA Implementation for Brain MRI Image Analysis Publisher: IEEE	IEEE	Apr-26	
17	Dr.J SUNITHA KUMARI	Title: An enhanced truncation and rounding based method for efficient approximate division in image processing applications	Sustainable Computing: Informatics and Systems(Elsevier journal)	Mar-26	under review
18	M GNANESH GOUD	Fidelity guided diffusion learning for low resource neurological disorder classification	Scopus(EAI)	Jul-26	Under Review
19	T.CHANDRA KALA	Human centred Artificial Intelligence for Ethical Decision Support Applications	2026 IEEE International conference for Women in Computing	Jul-26	Under Review
20	G.SOUJANYA	Explainable artificial Intelligence for Reliable pattern Recognition in Critical Decision Systems	2026 IEEE International conference for Women in Computing	Jul-26	Under Review
21	G.CHANDANA	AI Based Electric Vehicle Battery Health monitoring and Predictive Maintenance	IEEE		
22	L. BHAVANI ANNAPURNA	Efficient Prediction of Ovarian cancer Using Efficient NetB3 model and Deep Learning	IEEE - ICSIST 2026	May-26	Accepted
23	L. BHAVANI ANNAPURNA	Edge AI for Real - Time patient monitoring in Smart Health care Environments	2026 IEEE International conference for Women in Computing	Jul-26	Under Review