

**PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY (Autonomous)**  
**KANURU, VIJAYAWADA**

**Department of Electronics and Communication Engineering**

**Academic Year 2025-2026**

**1. INTERNATIONAL JOURNALS**

**i. SCI:**

- i. Dr.B.Samuyelu published a paper entitled **Addressing interface trap charge sensitivity in tunnel FETs via dual metal gate engineering**, Micro and Nanostructures, Vol.205, Article. 208176, ISSN No: 2773-0123, PP: 1-7, Sep, 2025, SCIE & Scopus.
- ii. Dr.T.Mahalakshmi published a paper entitled **Development of energy efficient routing and network life time optimization in IoT-based WSN by hybrid reptile search-artificial gorilla troops optimization**- Wireless Networks, Vol. 32, Issue 3, ISSN No: 1572-8196, PP: 1739-1768, Jun, 2026, SCIE & Scopus.

**ii. SCOPUS:**

- i. Mrs.D Hareesha published a paper entitled **Sustainable Deep Learning Learning-Based Fault Detection for Next Next-Generation 6G Networks**, IAENG International Journal of Computer Science, Vol.52, Issue 7, ISSN No: 1819-9224, PP: 2508-2517, Jul, 2025.
- ii. Dr.K. Phani Rama Krishna published a paper entitled **A petroleum chemistry perspective on integrating IN-SITU sensor data with reservoir models for enhanced oil recovery using Kalman filter**, Rasayan Journal of Chemistry, Vol.18, Issue 3, ISSN No: 0974-1496, PP: 1645-1653, Jul, 2025.
- iii. Mrs. D. Praveena Bai published a paper entitled **Internet of things consumer electronics cyber security approach based on deep learning**, Journal of Theoretical

and Applied Information Technology, Vol.103, Issue 14, ISSN No: 1992-8645, PP: 5186-5194, Jul, 2025.

- iv. Dr.Ch.Gangadhar, published a paper entitled **AI and IOT-Driven Smart Cities: Revolutionizing Energy Efficiency and Optimizing Traffic Flow for Sustainable Urban Living**, Journal of Theoretical and Applied Information Technology, Vol.103, Issue 14, ISSN No: 1992 8645, PP: 5376-5388, Jul, 2025.
- v. Dr. T Balaji, published a paper entitled **Differential Genetic Algorithm (DGA) based optimal directed random testing for reducing interactive faults**, Journal of Theoretical and Applied Information Technology, Vol.103, Issue 16, ISSN No: 1992-8645, PP: 6126-6136, Aug, 2025.
- vi. Mrs.B.Swati Lakshmi published a paper entitled **Enhanced Congestion Control in Future Generation 5G/6G Networks: A Novel Hybrid Deep Learning Model**, ASEAN Engineering Journal, Vol.15, Issue 3, ISSN No: 2586-9159, PP: 41-48, Aug, 2025.
- vii. Dr.J.Ravindrababu published a paper entitled **Hybrid methods for identifying false data injection attacks in automatic generation control Mechanisms**, IAENG International journal of computer science, Vol.52, Issue 9, ISSN No: 1819-9224, PP: 3286-3296, Sep, 2025.
- viii. Dr.T.Haritha published a paper entitled **A Miniaturized Highly Isolated Two Port Triple Band-Notched UWB MIMO Antenna verified by Characteristic Mode Analysis**, Progress in Electromagnetics Research C, Vol.160, ISSN No: 1937-8718, PP: 133-142, Sep, 2025.
- ix. Dr.P.Venu Madhav published a paper entitled **Optimized cost-effective energy management system for IoT-enabled smart homes using price-based EGO approach**, Intelligent Decision Technologies, Vol.19, Issue.5, ISSN No: 1875-8843, PP: 3526-3537, Sep, 2025.

- x. Dr.T.Balaji published a paper entitled **Comparative Study of One-Class Support Vector Machine, Bayesian Network, Ridge Classifier for Meteorological Data Analysis**, Ingenierie Des Systems D Information, Vol.30, Issue.9, ISSN No: 2116-7125, PP: 2365-2374, Sep, 2025.
- xi. Dr.T.Maha Lakshmi published a paper entitled **An Optimized Ensemble Approach for Alzheimer's Disease Detection: Integrating Gradient Boosting Techniques with Feature Selection and Hyper parameter Tuning**, Journal of Theoretical and Applied Information Technology, Vol.103, Issue 18, ISSN No: 1992-8645, PP: 7480-7492, Sep, 2025.
- xii. Mrs. K.Aruna Kumari published a paper entitled **Enhancing Healthcare Security with Block chain-Powered Smart Contracts**, Journal of Theoretical and Applied Information Technology, Vol.103, Issue 19, ISSN No: 1992-8645, PP: 8045-8061, Oct, 2025.
- xiii. Dr.T.Balaji published a paper entitled **Multimodal Deep Learning for Disease Diagnosis and Risk Stratification: Integrating Genomic, Clinical, and Imaging Data**, International Journal of Innovative Technology and Interdisciplinary Sciences, Vol.8, Issue 4, ISSN No: 2613-7305, PP: 937-969, Oct, 2025.
- xiv. Dr.P. Venu Madhav published a paper entitled **Deep Learning Hybrid Models for ECG-Based Biometric Authentication and Health Forecasting in Telemedicine Systems**, IAENG International Journal of Computer Science, Vol.52, Issue 11, ISSN No: 1819-9224, PP: 4467-4477, Nov, 2025.
- xv. Dr.L Madhavi Devi published a paper entitled **XMEDLLM: A Framework for Explainable Medical Intelligence Via LLMs in Edge-Driven MCP systems**, Journal of Theoretical and Applied Information Technology, Vol.103, Issue 22, ISSN No: 1992-8645, PP: 9660-9670, Nov, 2025.
- xvi. Dr. B. Surya Prasad Rao published a paper entitled **Enhanced Diagnosis of Lung and Colon Cancer Severity Through Deep Feature Analysis Using DenseNet201 and**

**SVM With Histopathological Images: A Super- Resolution Approach**, Cancer Reports, Vol.8, Issue 12, ISSN No: e70439, PP: 1-15, Dec, 2025.

- xvii. Dr.B.Surya Prasada Rao, DrA.Geetha Devi published a paper entitled **Automated Breast Cancer Detection in Mammograms Using Optimized Radial Basis Function Neural Network**, Ingenierie des Systemes d Information, Vol.30, Issue 12, ISSN No: 1633-1311, PP: 3243-3251, Dec, 2025.
- xviii. Dr.B.Surya Prasada Rao published a paper entitled **Smart and Transparent Defense: A Hybrid Explainable AI Framework for Phishing Resilience**, IAENG International Journal of Computer Science, Vol.53, Issue 1, ISSN No: 1819-9224, PP: 336-346, Jan, 2026.
- xix. Dr.A.Geetha Devi published a paper entitled **Multi-Task Deep Learning Framework for Segmentation and Severity Estimation of Leaf Diseases in Multi-Crop Environments**, International Journal of Innovative Technology and Interdisciplinary Sciences, Vol.9, Issue 1, ISSN No: 2613-7305, PP: 210-227, Jan, 2026.
- xx. Dr.Ch.Gangadhar published a paper entitled **Exploring the role of behavioral analytics and anomaly detection in securing mobile networks for critical infrastructure**, Information Security Journal: A Global Perspective, Vol.35, Issue 1, ISSN No: 1939-3547, PP: 154-167, Feb, 2026.
- xxi. Dr.Ch.Subba Rao published a paper entitled **Design and Implementation of a High Gain Compact IoT Wearable Antenna for Vital Signs Data Transmission Using ESP8266**, Progress In Electromagnetics Research C, Vol.169, ISSN No: 1937-8718, PP: 74-83, Apr, 2026.
- xxii. Dr.V.S.D.Rekha published a paper entitled **Thermally Controlled Tri-Band Metamaterial Perfect Absorber based on Vanadium Dioxide (VO<sub>2</sub>) for Terahertz Communication Application**, Journal of Nano- and Electronic Physics, Vol.18, Issue 2 ISSN No: 2077-6772, PP: 02019(5pp), Apr, 2026.

xxiii. Dr.J.Ravindra Babu published a paper entitled **Federated Learning Based Traffic Intelligence for Privacy Preserving Distributed Optimization of Wireless Network Performance**, Journal of Theoretical and Applied Information Technology, Vol.104, Issue 9, ISSN No: 1992-8645, PP: 416-428, May, 2026.

xxiv. Dr.Habibulla MD, Dr.Ch.Gangadhar, Dr.K.Phani Rama Krishna published a paper entitled **Congestion avoidance in DEC protocol using Leaky Bucket Algorithm**, International Journal of Electronics and Telecommunications, Vol.72, Issue 2, ISSN No: 2300-1933, PP: 1-6, May, 2026.

xxv. Dr.J.Ravindra Babu published a paper entitled **Securing electric vehicle charging stations from adversarial cyber attacks using hybrid detection models**, Bulletin of Electrical Engineering and Informatics, Vol.15, Issue 3, ISSN No: 2302-9285, PP: 2054-2063, Jun, 2026.

xxvi. Dr.V.S.D.Rekha published a paper entitled **Design of Single Element Penta Band, High Directive Gain Antenna for 5G MM Wave Applications** - Telecommunications and Radio Engineering, Vol.85, Issue 5, ISSN No: 0040-2508, PP: 63-72, Jun, 2026.

### iii. OTHER JOURNALS:

- i. Dr.A.Geetha Devi published a paper entitled **Accuracy Assessment of Convolutional Neural Networks for Plant Disease Prediction with Multi-Stage Image Preprocessing**, International Journal of Environmental Sciences, Vol.11, Issue 5, ISSN No: 2229-7359, PP: 1332-1342, Jul, 2025.

## 2. INTERNATIONAL CONFERENCES

### a. SCOPUS:

- i. Dr.V S D Rekha presented a paper titled **Energy Efficient Communication in IoT: A Review of Clustering Protocols and Bio-Inspired Optimization Algorithms**, Third International Conference on Emerging Applications of Material Science and Technology (ICEAMST), 03-11-2025 to 05-11-2025, Bengaluru, India, ISBN: 979-8-3315-8708-6

- ii. Dr. T Balaji presented a paper titled **Healthcare Predictive Analytics: A Deep Learning Models for Clinical Decision Support and Optimizing Patient Outcomes**, 2025 International Conference on Intelligent Computing, Information and Control Systems (ICOIICS-2025), 19-11-2025 to 21-11-2025, Nepal college of information technology, Lalitpur, Nepal, ISBN: 979-8-3315-9897-6, <https://doi.org/10.1109/ICOIICS67115.2025.11390190>
- iii. Dr.T. Haritha, Mrs.D.Swati presented a paper titled **Near-Field Channel Modeling and Beamforming in 6G Wireless Networks**, 2026 Sixth International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT), 08-01-2026 to 09-01-2026, Bhilai, India, ISBN: 979-8-3315-7322-5, <https://doi.org/10.1109/ICAECT68478.2026.11426120>
- iv. Dr.T Mahalakshmi presented a paper titled **Artificial Intelligence driven adaptive Cryptographic Framework using Reinforcement Learning (ACFRL) for intelligent security systems**, 2026 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI), 22-04-2026 to 24-04-2026, Chennai, India, ISBN: 979-8-3195-4165-, <https://doi.org/10.1109/RAEEUCCI67649.2026.11504996>