

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY (Autonomous)

KANURU, VIJAYAWADA

Department of Electronics and Communication Engineering

Academic Year 2023-2024

1. Papers presented in Seminars/Conferences/Symposiums by the faculty:

International Conferences:

- i. Dr. P.Venu Madhav presented a paper entitled **Design and Implementation of Smart Housing System for Elderly Persons** - International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI); ISN: 979-8-3503-3742-6; Vol:23; organized by SRM University, Chennai on 17th July, 2023. (Scopus)
- ii. Mrs.B.V. Subbayamma presented a paper entitled **Enhancement of Energy Efficiency Using improved Energy Efficient Routing Protocol in Wireless Sensor Networks for IOT Applications** - 3rd International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS) - 2023; ISN: 979-8-3503-4617-6; Vol: 979; Issue:8; Page No:37-40 organized by Adi Shankara Institute of Engineering and Technology, Kalady, Ernakulam, India during 18th – 20th May, 2023. (Scopus; Date Added to IEEE Xplore: 07 August 2023).
- iii. Ms.T. Sushma presented a paper entitled **Implementation of Extreme Learning Model for Cyber Security in IoT Networks** - 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA 2023); ISBN: 979-8-3503-1398-7; Vol:23; organized by Bharath Nikethan Engineering College, Theni, India, during 15th - 17th November, 2023.
- iv. Dr. P. Venumadhav presented a paper **Reconfigurable Octagon Split Ring Resonator Microstrip Patch Antenna** - International Conference on Innovative Engineering Technologies (ICIET-24), Page No: 50-55, organized by National Institute For Engineering And Research, Coimbatore on 2nd March 2024
- v. Dr. CH. Gangadhar presented a paper **Analysis of ECG signal and Non-Invasive Blood Glucose Monitoring using Neural Networks** - 4th International Conference on Pervasive

Computing and Social Networking (ICPCSN-2024) organized by R P Sarathy Institute of Technology, Salem on 3rd – 5th May 2024.

- vi. Dr. CH. Gangadhar presented a paper **Voltage Controlled Oscillator for Bluetooth and Wi-Fi Applications with 22nm Technology** – The 15th International IEEE conference on Computing, Communication and Networking Technologies; organized by IIT-Mandi, in association with IEEE Electronics Packaging Society, during 24th - 28th June 2024.

2. Publications by the faculty (National/International Journals/ Conferences):

a) Scopus indexed journals:

- i. Dr. Habibulla Mohammad, Mr.K. Phani Rama Krishna, Dr.Ch Gangadhar published a paper entitled **Token Bucket Algorithm with Modernization Techniques to avoid Congestion in DEC Protocol of WSN** - International Journal of Electronics and Telecommunications, ISSN: 2081-8491; Vol:69; Issue:3 ; Page No: 507-513, July-2023. (Scopus)
- ii. Mrs.D Hareesha published a paper entitled **Improving Data Transmission by Efficient Communication Protocol to Control Wearable Sensors with Risk Level Analysis in Smart E Health** - International Journal of Intelligent Systems and Applications in Engineering, ISSN: 2147- 6799; Vol: 11(9s); Page No: 317 - 329, July-2023. (Scopus)
- iii. Dr. T.Haritha published a paper entitled **Efficient employment of VCSEL light sources in high speed dispersion compensation system** - Journal of Optical Communications, ISSN: 2191-6322; Vol: **ONLINE**; September -2023. (Scopus)
- iv. Mr.K Phani Rama Krishna, 2. Habibulla Mohammad, 3. Ch Gangadhar, published a paper entitled **Congestion Detection and Mitigation Technique for Multi-Hop Communication in WSN** - International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169, Volume: 11, issue: 8s, Page Numbers: 236-241, Aug-2023 (Scopus).
- v. Dr.J.Ravindrababu published a paper entitled **Current Challenges and Future Directions in Artificial Intelligence for Imaging Informatics** - Journal of Theoretical and Applied

Information Technology, ISSN: 1992-8645; Vol:101; Issue:21; Page No: 6801-6809, November -2023. (Scopus)

- vi. Dr. B.Samuyelu published a paper entitled **Multi-objective hybrid optimization for micro strip patch antenna design** - Web Intelligence, ISSN: 2405-6456; Vol: 21; Issue: 4; Page No: 451-472, November -2023. (Scopus)
- vii. Mrs.D.Hareesha published a paper entitled **A novel multi-level clustering mechanism using heuristic approach for secure data transmission in WSN sector with various trust computation** - Intelligent Decision Technologies, ISSN: 1875-8843; Vol:17; Issue:4 ; Page No: 1417-1433, November -2023. (Scopus)
- viii. Dr. A. Geetha Devi published a paper entitled **Few-shot learning convolutional neural network for primitive indian paddy grain identification using 2D-DWT injection and grey wolf optimizer algorithm** - Journal of Agriculture and Food Research, ISSN: 2666-1543; Vol:15; Issue: 1; Page No:1-8, December -2023. (Scopus)
- ix. Dr. B.Surya Prasada Rao published a paper entitled **Saline Fluid Flow Supervision in Intensive Care Unit Using Precision Algorithm** - Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645; Vol:101; Issue:23 ; Page No: 7769-7775, December -2023. (Scopus)
- x. Dr. Ch Gangadhar published a research paper entitled **Performance signature of transceiver detection of harvesting stage in cotton fields using deep adversarial networks** - Soft Computing, Vol:28, Issue:01, PP: 1819-1831, ISSN: 1433-7479, January – 2024.
- xi. Ms. B.V.Subbayamma, published a research paper entitled **Deep Learning Based Brain Tumor Analysis with Manual Layer Selection** - International Journal of Intelligent Systems and Applications in Engineering, Vol:12, Issue:07, PP:20-25, ISSN: 2147-6799, January – 2024.
- xii. Dr. J. Ravindra Babu published a research paper entitled **Analysis of Multiuser Detectors and Performance improvement in DSCDMA system using Multistage Multiuser**

Detection Techniques - Wseas Transactions On Electronics, Vol:15, Issue:01 PP:1-10, ISSN: 2415-1513, January – 2024.

- xiii. Mrs. L. Madhavi Devi published a research paper entitled **Exterior Wound Detection and Classification Using Features Based Deep CNN** - Journal of Theoretical and App, Vol:102, Issue:04 PP:1-10, ISSN: 1992-8645, February – 2024.
- xiv. Dr. Surya Prasada Rao Borra published a research paper entitled **Novel Design of Volumetric Antenna for Wideband Applications** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:03 PP: 1250-1259, ISSN: 1992-8645, February – 2024.
- xv. Dr. Surya Prasada Rao Borra published a research paper entitled **Skin Abrasions Identification with Visual Geometry Group CNN** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:04 PP: 1412-1418, ISSN: 1992-8645, February – 2024.
- xvi. Mrs. Mannava Srinivasa Rao published a research paper entitled **A Flexible ECE-Shaped High Gain Antenna Array for Wearable Applications** - ARPN Journal of Engineering and Applied Sciences, Vol:19, Issue:04 PP: 203-209, ISSN: 1819-6608, February – 2024.
- xvii. Mrs. Kukati Aruna Kumari published a research paper entitled **Neural Network Pruning Techniques for Efficient Model Compression** - Intelligent Systems and Applications in Engineering, Vol:12, Issue:15S PP: 565-575, ISSN: 2147-67992, February – 2024.
- xviii. Dr. P. Venumadhav published a research paper entitled **Stream of Traffic Sign Recognition by Means of Auto Encoder Classification Models** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:05 PP: 1843-1848, ISSN: 1992-8645, March – 2024.
- xix. Dr. Surya Prasada Rao Borra published a research paper entitled **Chronic hepatitis-C detection interpretation using machine learning algorithm and with clinical findings** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:5 PP: 2050-2058, ISSN: 1992-8645, March – 2024.

- xx. Mrs. Swathi Dasi published a research paper entitled **IoT-Based Smart Energy Management System to Meet the Requirements of EV Charging Stations** - Journal of optical communications, Vol:45, Issue:02 PP: 165-176, ISSN 2191-6322, April – 2024.
- xxi. Dr. Thotakura Haritha published a research paper entitled **Efficient employment of VCSEL light sources in high speed dispersion compensation system** - Journal of Optical Communications, Vol:45, Issue:02 PP: 285-293, ISSN: 2191-6322, April – 2024.
- xxii. Mrs.Swathi Dasi published a research paper entitled **Efficient employment of VCSEL light sources in high speed dispersion compensation system** - Journal of Optical Communications; Vol:45, Issue:2, PP: 165-176, ISSN: 2191-6322, April – 2024.
- xxiii. Dr. Vemuri Ratna Kumari published a research paper entitled **Intelligent of things multiagent systems for smart home energy monitoring** - Indonesian Journal of Electrical Engineering and Computer science, Vol:34, Issue:03 PP: 1858-1867, ISSN 2502-4752, June – 2024.
- xxiv. Ms.Thotakura Sushma published a research paper entitled **Design of Ultra-Wideband Antenna with Quadruple Band Notch Reconfigurability** - Progress In Electromagnetics Research C, Vol:144, Issue: PP: 23-31, ISSN: 1937-8718, June – 2024.

b) SCI/SCIE/ESCI indexed journals:

- i. Mrs.V.Ratna Kumari published a paper entitled **A Novel Optimized Deep Network for Ear Detection and Occlusion Analysis** - Wireless personal communications, ISSN: 1572-834X; Vol: 131; Issue: 3; Page No: 1721-1743, August-2023. (SCI)
- ii. Mrs. B.V.Subbayamma published a Research Paper **Multi-image fusion: optimal decomposition strategy with heuristic-assisted non-subsampled shearlet transform for multimodal image fusion** - Signal, Image and Video Processing Vol:18, Issue:03, PP: 2297–2307, ISSN: 1863-1703, February – 2024.

- iii. Mrs. Komma Anitha published a research paper entitled **ResNet101-SVM: Hybrid convolutional neural network for citrus fruits classification** - Journal of Intelligent & Fuzzy Systems, Vol:46, Issue:03, PP: 7035-7045, ISSN: 1064-1246, March – 2024.
- iv. Mr.Mannava Srinivasa Rao published a research paper entitled **Bi-layer deep feature fusion based mineral classification using hand-specimen images** - Journal of Intelligent & Fuzzy Systems, Vol:46, Issue:03, PP: 6969-6976, ISSN: 1064-1246, March – 2024.
- v. Dr. C.Subba Rao published a research paper entitled **Crowd movement monitoring in academic buildings: a reinforcement learning approach** - Multimedia Tools and Applications; ISSN: 1380-7501, (Online) April – 2024.
- vi. Dr. Thotakura Haritha published a research paper entitled **Design and development of square stub loaded band pass filter with quality factor analysis** - Journal of Instrumentation, Vol:19, Issue:05, PP: P05019 ISSN: 1748-0221, May – 2024.
- vii. Dr. C.Subba Rao published a research paper entitled **Enhancing remote target classification in hyperspectral imaging using graph attention neural network** - Journal of Earth System Science; Vol:133, Issue:2, PP: Article:89; ISSN: 2347-4327, June – 2024.
- viii. Dr. B. Samuyelu published a research paper entitled **The Effect of a Dual Oxide - Dual Gate Material and a Sensitivity Analysis on the Performance of a Junctionless Tunnel FET – Silicon**; Vol:16, Issue:9, PP: 3905-3915; ISSN: 1876-990X, June – 2024.

c) UGC/ Other journals:

- i. Dr. Ch Gangadhar published a research paper entitled **Machine learning and IoT Based Robotic Solution for Home Wrist Rehabilitation through Motion Capture Enabled Architecture** - Journal of Electrical Systems, Vol:20, Issue:2, PP:876, ISSN: 11125209, April – 2024
- ii. Dr. Ch Gangadhar, Habibulla Mohammad, K. Phani Rama Krishna published a research paper entitled **Distributed Ledger Technology on Enhanced Pegasis Algorithm for Mobility Management in WSN** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:10 PP:4339, ISSN: 1992-8645, May – 2024.