

RAMCO INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
JOURNAL PUBLICATION
ACADEMIC YEAR: 2024-2025

1. Ramathilagam, A, **Vijayalakshmi, K**, “Customizable Fuzzy-Neuro Inference System Attack Detection Based on Trust for Mobile Wireless Sensor Networks”, Wireless Personal Communication, Vol.137, pp.671-684, July 2024. <https://doi.org/10.1007/s11277-024-11263-4>. **(SCI)**
2. **Gethzi Ahila Poornima I**, S. Amirtharaj, M. Maheswaran, A. Bhuvanesh, “Levy flight-based momentum search and Circle Rock Hyrax swarm optimization algorithms for energy effective clustering and optimal routing in wireless body area networks”, Computers and Electrical Engineering, Vol.118, ISSN 0045-7906, pp.109461, July 2024. <https://doi.org/10.1016/j.compeleceng.2024.109461>. **(SCI)**
3. Hema M, Gurunadha R, Neelima A, Muthukumaran N, Geetha A, **Manjula S**, “HIDE6G: Advanced Intrusion Detection System for Secure 6G Network using Deep Learning”, International Journal of Intelligent Engineering and Systems, Vol. 17, no.5, pp.474-484, July 2024. DOI: 10.22266/ijies2024.1031.37. **(Scopus)**
4. Shenbagarajan, A, Ragavan, K, Shenbagalakshmi, G, **Venkatesh, R**, “MRI Brain Tumor Segmentation using Cuckoo-based Dimensionality Reduction and Ensemble Convolutional Neural Network,” The Open Biomedical Engineering Journal, Vol.18, no.1, July 2024. <https://doi.org/10.2174/0118741207290221240318063349>. **(Scopus)**
5. **Manjula, S, Sudha, M.S., Yogaraja, C.A.** et al. “Real-Time Speed Breaker Detection with an Edge Impulse”, SN Computer Science, Vol.5, no.766, August 2024, <https://doi.org/10.1007/s42979-024-03132-5>. **(Scopus)**
6. V. Antony Asir Daniel, **K.Vijayalakshmi**, Priyanka Pramod Pawar, Deepak Kumar, A. Bhuvanesh, A. Josephine Christilda, “Enhanced affinity propagation clustering with a modified extreme learning machine for segmentation and classification of hyperspectral imaging”, e-Prime - Advances in Electrical Engineering, Electronics and Energy, Vol.9, pp.100704, ISSN 2772-6711, September 2024. <https://doi.org/10.1016/j.prime.2024.100704>. **(Scopus)**
7. **K.Vignesh Saravanan**, S.Kavi Priya and **K.Vijayalakshmi**, “Enhanced mobile sink path optimization using RPN – RNN algorithm for energy efficient data acquisition in WSN”, Journal of Wireless networks, Vol.31, pp. 1705-1717, November 2024. DOI: 10.1007/s11276-024-03850-x. **(SCI)**

8. **Vijayalakshmi Balachandran**, Thanga Ramya Shanmugavel, Ramar Kadarkarayandi, **Vijayalakshmi Kandhasamy**, “A hybrid approach of pattern recognition to detect marine animals”, International Journal of Informatics and Communication Technology (IJ-ICT) Vol.14, no.1, pp. 240-249, April 2025. <http://doi.org/10.11591/ijict.v14i1.pp240-249>. **(Scopus)**
9. R. Sujitha, **I. Gethzi Ahila Poornima**, Umamageswaran Jambulingam, “Incremental model of relevance in features with healthcare data analytics, Biomedical Signal Processing and Control, Vol.104, pp.107504, ISSN 1746-8094, 2025 <https://doi.org/10.1016/j.bspc.2025.107504>. **(SCI)**
10. Vargheese M. Sankarasubramanian R.S. **Vijayalakshmi B.** Keerthanadevi R, “GTDCER: GameTheoretic Dynamic Clustering for Enhanced Efficiency and Reliability in Wireless Sensor Networks”, International Journal of Communication Systems, Vol.38, no.3, Jan 2025. <https://doi.org/10.1002/dac.6101>. **(SCI)**
11. Sampath, P., **Vijayalakshmi, K.**, Kala Rathi, M., & Mathavan, N. “Efficient indoor localization by integrating RFID with adaptive emperor penguin colony-based deep Q learning”. Journal of the Chinese Institute of Engineers, Vol.48, no.2, pp.183–194, Feb 2025. <https://doi.org/10.1080/02533839.2025.2458073>. **(SCI)**
12. **Venkatesh R.; Vijayalakshmi K.**; Geetha M.; Bhuvanesh A, “Strawberry Diseases Detection Using Adaptive Deep Residual Network”, Journal of Phytopathology, Vol.173, no.2, Feb 2025. <https://doi.org/10.1111/jph.70043>. **(SCI)**
13. **Vignesh Saravanan**, K., Kavipriya, S., Sobhinosannal, H. G., & Dhanalakshmi, M. “MS-ExTdO: mobile sink path planning based on extended Tasmanian devil optimization for wireless sensor networks,” Journal of the Chinese Institute of Engineers, Vol.48, no.3, pp.227–238, March 2025. <https://doi.org/10.1080/02533839.2025.2468724>. **(SCI)**
14. **Manjula, S.**, & Valarmathi, K, “AI-based security in cyberspace for medical images using image translation”, Journal of the Chinese Institute of Engineers, pp.1–13. April 2025. <https://doi.org/10.1080/02533839.2025.2474694>. **(SCI)**
15. **Poornima I.** Dontu S. Maheswaran M. Vallabhaneni R., “Energy-Effective Optimal Routing–Driven Hybrid Optimizations–Enabled IoT-Based Wearable Wireless Body Area Network”, International Journal of Communication Systems, Vol.38, no.6, February 2025. <https://doi.org/10.1002/dac.70037>. **(SCI)**
16. **R. Venkatesh, K. Vijayalakshmi**, M. Geetha and A. Bhuvanesh, “Optimized Deep Belief Network for Multi-Disease Classification and Severity Assessment in

Strawberries”, Journal of Animal and Plant Sciences, Vol.35, no.2, April 2025. **(Scopus)**