



RAMCO INSTITUTE OF TECHNOLOGY

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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Computer Science and Engineering

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Journal Publication

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>. (IF: 1.9) (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, pp.109461, July 2024. <https://doi.org/10.1016/j.compeleceng.2024.109461>. (IF: 4) (SCI)
3. Hema M, Gurunadha R, Neelima A, Muthukumaran N, Geetha A, **Manjula S**, “HIDE-6G: 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, 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. (IF: 2.1) (SCI)

8. Vargheese M. Sankarasubramanian R.S. **Vijayalakshmi B.** Keerthanadevi R, “GTD-CER: 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>. (IF: 1.7) **(SCI)**
9. 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> (IF: 1) **(SCI)**
10. **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)**
11. 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, June 2025 <https://doi.org/10.1016/j.bspc.2025.107504>. (IF: 4.9) **(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> (IF: 1.1) **(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>. (IF: 1) **(SCI)**
14. **Manjula, S**, & Valarmathi, K, “AI-based security in cyberspace for medical images using image translation”, Journal of the Chinese Institute of Engineers, Vol.48, no.4, pp.454–456, April 2025. <https://doi.org/10.1080/02533839.2025.2474694>. (IF: 1) **(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> (IF: 1.7) **(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. <https://doi.org/10.36899/JAPS.2025.2.0040>. **(SCI)**
17. Venkata Saiteja Kalluri, Sai Chakravarthy Malineni, **Manjula Seenivasan**, Jeevitha Sakkarai, Deepak Kumar, Bhuvanesh Ananthan, “Enhancing manufacturing

efficiency: leveraging CRM data with Lean-based DL approach for early failure detection”, Bulletin of Electrical Engineering and Informatics, Vol.14, no.3, pp. 2319~2329, June 2025. DOI: 10.11591/eei.v14i3.8757. **(Scopus)**

18. Amudhan, K., **K. Vignesh Saravanan**, R.Venkatesh, M.Ramnath, “Real-Time Detection of Cracks and Structural Weaknesses in Materials and Surfaces Using Improved Deep Layered CNN, Journal of The Institution of Engineers (India): Series C, Vol.106, pp.897–912, June 2025. <https://doi.org/10.1007/s40032-025-01176-x>. **(Scopus)**
19. **Sakthi Priya G, Vignesh Saravanan K**, Dheetchana K, “Enhanced Bird Species Image Recognition and Classification Using MobileNet and InceptionV3 Transfer Learning Architectures”, Electronic Letters on Computer Vision and Image Analysis, Vol.24, no.1, pp.118-133, May 2025. <https://doi.org/10.5565/rev/elcvia.2020>. **(Scopus)**
20. **Vignesh Saravanan Kirubakara, Swarna Sudha Muppudathi, Jothi Thilaga Paul Ayyadurai, Sakthi Priya** Gomathi Nayagam, “Leveraging active learning practices for effectiveness of higher education: performance based investigation”, International Journal of Evaluation and Research in Education (IJERE), Vol.14, no.3, pp.2327-2336, June 2025. DOI: <http://doi.org/10.11591/ijere.v14i3.30325>. **(Scopus)**