RAMCO INSTITUTE OF TECHNOLOGY

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Department of Computer Science and Engineering

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Journal Publication

1. **Jeyageetha K, Vijayalakshmi K**, Suresh S, Bhuvanesh A, "Multi-skin disease classification using hybrid deep learning model", Technology and Health Care. Vol.33, no.4, pp.1736-1754, July 2025. doi:10.1177/09287329241312628. (SCI) (IF-1.8)
2. Aswini, J., Rekha, K.S., Rosaline, R.A.A., **A. Sivaneshkumar,** "Enhancing security in cloud computing systems using hybrid feature selection and ensemble-based machine learning for intrusion detection", Evolving Systems, Vol.16, pp.101, August 2025. https://doi.org/10.1007/s12530-025-09725-6. (SCI) (IF-2.8)
3. **I. Gethzi Ahila Poornima**, M. Sujitha, **K. Vijayalakshmi**, M. Ramkumar Raja, "Design of hybrid MAC protocol using modified marine predators optimization algorithm for machine-to-machine communication", Ain Shams Engineering Journal, Vol.16, no.12, December 2025, pp.103730, ISSN 2090-4479, https://doi.org/10.1016/j.asej.2025.103730. (SCI) (IF- 5.9)
4. Sarumathi, S., & **Vijayalakshmi, K**. "Efficient Multi-Agent Optimized Reinforcement Learning Algorithm-Based Task Scheduling in Fog-Cloud Environment", IETE Journal of Research, pp.1–14, October 2025. https://doi.org/10.1080/03772063.2025.2567597. (SCI) (IF-1.3)
5. Anandh Sam Chandra Bose, M. Eliazer, B. Uma Maheswari, **A. Sivaneshkumar**, M. Sumithra & Shamimul Qamar, "Securing healthcare data in mobile edge computing: a hybrid deep learning framework for privacy and anomaly detection", Knowledge Information System, Vol.67, pp.12079–12117, September 2025. https://doi.org/10.1007/s10115-025-02586-0. (SCI) (IF-3.1)
6. Gomathy Nayagam Meenakshi Sundara Desikar, Ramar Kadarkarai, Krishnan Somasundaram, **Vijayalakshmi Kandasamy**, Pachaivannan Partheeban De," Optimized multi-dimensional attention spiking neural network for pneumonia detection in chest x-ray images", Biomedical Signal Processing and Control, Vol.113, pp.108765, ISSN 1746-8094, 2026. https://doi.org/10.1016/j.bspc.2025.108765. (SCI) (IF-4.9)
7. Lekha, A, Parvathy, K.S, **Arumugam, S**, "Strength based domination in graphs", Communications in Combinatorics and Optimization, Vol.11, no.1, pp.145-154, 2026. 10.22049/cco. 2024.29456.2 002. (SCOPUS)

8. **Arumugam, S.,** Hegde, S.M. & Kulamarva, S, "An improved upper bound for the domination number of a graph", Proceedings of the Indian Academy of Sciences: Mathematical Sciences, Vol.135, no.2, 2025. https://doi.org/10.1007/s12044-025-00850-5. (SCI) IF:0.4
9. Kuruba Ashoka, Bolle Parvathalu and **Subramanian Arumugam**, "Harary Spectra and Energy of Certain Classes of Graphs", Current Organic Synthesis, Vol.22, no.7, pp.791-798, 2025. **DOI:** 10.2174/0115701794330372241114102237. (SCI) IF:2.5
10. **Swarna Sudha M, Manjula S**, Valarmathi K, Bhuvanesh A, "A deep learning framework for detecting fake news using optimized GRU and image-text fusion", Journal of the Chinese Institute of Engineers, pp.1–16, 2026. https://doi.org/10.1080/02533839.2026.2630738. (SCI) IF:1.2
11. **Vijayalakshmi B, Vignesh Saravanan K, Vijayalakshmi K,** "Integrated air quality monitoring and PM forecasting in India: a comparative study of machine learning and deep learning approaches", Air Quality Atmosphere and Health, Vol. 19, no.77, 2026. https://doi.org/10.1007/s11869-026-01973-y. (SCI)