

**Department of Electronics and Communication Engineering**

**Journal Publication**

**Academic Year 2023-2024**

Sl.No.	Title of the Paper
1.	Mohana Sundaram, N., Thottungal, R. Stability analysis of single-machine infinite bus system with renewable energy sources using sine cosine chimp optimization. Electr Eng (2024). <a href="https://doi.org/10.1007/s00202-024-02450-4">https://doi.org/10.1007/s00202-024-02450-4</a>
2.	Jayaraman, R., Thottungal, R. Accurate state of charge prediction for lithium-ion batteries in electric vehicles using deep learning and dimensionality reduction. Electr Eng 106, 2175–2195 (2024). <a href="https://doi.org/10.1007/s00202-023-02227-1">https://doi.org/10.1007/s00202-023-02227-1</a>
3.	Nagarathinam, S., Vasuki, A. & Paramasivam, K. PAN and MS satellite image fusion using fast guided filter and PSO segmentation. Sādhanā 48, 199 (2023). <a href="https://doi.org/10.1007/s12046-023-02262-5">https://doi.org/10.1007/s12046-023-02262-5</a>
4.	Anusha Sowbarnika V, Balasubramani M, Kavitha K. The security-based optimization algorithm for enhancing the energy efficiency of wireless sensor networks. Int J Commun Syst. 2023; 36(16):e5584. doi:10.1002/dac.5584
5.	Karthi, S.P., Kavitha, K. Detecting and Classifying Parametric Faults in Analog Circuits Using an Optimized Attention Neural Networks. Circuits Syst Signal Process 43, 5401–5437 (2024). <a href="https://doi.org/10.1007/s00034-024-02722-1">https://doi.org/10.1007/s00034-024-02722-1</a>
6.	S.Umamaheswari, Dr & Birnica, Y. & Boobalan, J. & Sethuraman, V.s.Akshaya. (2024). Optimizing Cervical Cancer Classification with SVM and Improved Genetic Algorithm on Pap Smear Images. Computer Science Journal of Moldova. 32. 61-83. 10.56415/csjm.v32.05.
7.	Arun Kumar S, & Sasikala, S. (2023). Enhanced Alzheimer’s Disease Classification Using Multilayer Deep Convolutional Neural Network-Based Experimentations. Iranian Journal of Science and Technology, Transactions of Electrical Engineering, 47(4), 1595-1621.
8.	Shanmugam Sasikala, Kandasamy Karthika, Shanmugam Arunkumar, Karunakaran Anusha, Srinivasan Adithya, and Ahmed Jamal Abdullah Al-Gburi, "Design and Analysis of a Low-Profile Tapered Slot UWB Vivaldi Antenna for Breast Cancer Diagnosis," Progress In Electromagnetics Research M, Vol. 124, 43-51, 2024. doi:10.2528/PIERM23110702
9.	Kandasamy, Karthika, Kaliappan, Kavitha, Shanmugam, Sasikala and Srinivasan, Adithya. "Gain enhancement in octagonal shaped frequency reconfigurable antenna using metasurface superstrate" Frequenz, 2024. <a href="https://doi.org/10.1515/freq-2023-0269">https://doi.org/10.1515/freq-2023-0269</a>
10.	S. Arun Kumar, & S. Sasikala. (2023). Review on Deep Learning-Based CAD Systems for Breast Cancer Diagnosis. Technology in Cancer Research & Treatment, 22, 1-13. <a href="https://doi.org/10.1177/15330338231177977">https://doi.org/10.1177/15330338231177977</a>
11.	Kumar, S. A., & Sasikala, S. (2023). Automated Brain Tumour Detection and Classification using Deep Features and Bayesian Optimised Classifiers. Current Medical Imaging Formerly Current Medical Imaging Reviews, 20. <a href="https://doi.org/10.2174/1573405620666230328092218">https://doi.org/10.2174/1573405620666230328092218</a>
12.	Allin Joe, D., & Krishnan, T. (2023). A Triband Compact Antenna for Wireless Applications. International Journal of Antennas and Propagation, 2023.

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13.	Allin Joe D, Krishnan Thiyagarajan (2023). A modified Sierpinski carpet antenna structure for Multiband Wireless Applications. The Scientific Temper, 14(02), 398–404. <a href="https://doi.org/10.58414/scientifictemper.2023.14.2.25">https://doi.org/10.58414/scientifictemper.2023.14.2.25</a>
14.	Karthika, K., Kavitha, K. Design and Development of Self-Complementary DNA Structure-based Frequency Reconfigurable Antenna. J. Electr. Eng. Technol. (2024). <a href="https://doi.org/10.1007/s42835-024-01917-5">https://doi.org/10.1007/s42835-024-01917-5</a>
15.	Prasanna Kumar S, and A Sivasubramanian (2024), Design of polymer BenzoCycloButene (BCB) based silicon photonic MZI waveguide for label-free biosensing, in Optoelectronics And Advanced Materials – Rapid Communications Vol. 18, No. 3-4, March-April 2024, p. 93 - 102.
16.	Boobalan, J., Malleswaran, M., & Muthupriya, V. (2024). Anfis-Based Link Stability Prediction for SCES-AOMDv Routing Protocol Under Random Waypoint Mobility. Ad Hoc & Sensor Wireless Networks, 58(1-2), 151-174. DOI: 10.32908/ahsw.n.v58.10387
17.	Suriyakumar, B., & A. Vasuki. (2024). Optimization and analysis of distributed generation units in distributed system for minimizing losses. Indonesian Journal of Electrical Engineering and Computer Science, 34(1), 31. <a href="https://doi.org/10.11591/ijeecs.v34.i1.pp31-39">https://doi.org/10.11591/ijeecs.v34.i1.pp31-39</a>
18.	Kavitha, Dr. K., & Karthika, K. (2023). Implementation Challenges and Opportunities in the Outcome-Based Education (OBE) for Teaching Engineering Courses: A Case Study. In International Journal of Engineering and Advanced Technology (Vol. 12, Issue 5, pp. 7–11). Blue Eyes Intelligence Engineering and Sciences Engineering and Sciences Publication - BEIESP. <a href="https://doi.org/10.35940/ijeat.e4133.0612523">https://doi.org/10.35940/ijeat.e4133.0612523</a>
19.	Amsaveni Avinashiappan, Harshavarthan Thiagarajan, Harshwarth Mahesh, Rohith Suresh, Smart surveillance using deep learning,International Journal of Reconfigurable and Embedded System, Vol. 12, No. 3, pp. 423-432, <a href="http://doi.org/10.11591/ijres.v12.i3.pp423-432">http://doi.org/10.11591/ijres.v12.i3.pp423-432</a>
20.	A. Amsaveni, L. Harish, S. Rashmi, and A. KaiserPerformance analysis of pentagonal MIMO antenna with elliptical slots for 5G V2V communication International Journal of Vehicle Information and Communication Systems 2024 9:1, 103-113
21.	Asfaq Moideen A, Selva Suganya K, Mrs. Dhivya Praba R, Khishore Kumar KM, Raguram K, Monisha L, Janarthanan B An Automated Mechanized Robot for Handling Ricebags, International Journal For Multidisciplinary Research 6. 1-15.
22.	Thilagavathi.K, Tarunika.M, Sanjana.V, Sivani.S.G,Soil Classification Using Convolutional Neural Network,International Journal of Advanced Research in Electrical, Electronics and Instrumentation EngineeringVolume 13, Issue 5, May 2024.pp 1667-1672
23.	S.Sujay,M.Surya,S.Vekash,AKalaiselvi, Industrial Safety Management Using Deep Learning, Journal of Image Processing and Artificial Intelligence, 10, 2, May 2024, pp. 14 – 21. e-ISSN: 2581-3803