

Student Publication - 2022-2023

List of Journal Publication

- [1]. **Kumarappan, M. V., Kashyap, K. A., & Prakasam, P.** (2023). Fused empirical mode decomposition with spectral flatness and adaptive filtering technique for denoising of ECG signals. *Analog Integrated Circuits and Signal Processing*, 114(1), 41-50. **DOI:** 10.1007/s10470-022-02120-0
- [2]. **Vijay , S.,** Guhan, T., Srinivasan, K., Vincent, P. D. R., & Chang, C. Y. (2024). MRI brain tumor segmentation using residual Spatial Pyramid Pooling-powered 3D U-Net. *Front. Public Health* 11:1091850. **DOI:** 10.3389/fpubh.2023.1091850
- [3]. **Bhattacharyya, A., Nambiar, S. M.,** Ojha, R., Gyaneshwar, A., Chadha, U., & Srinivasan, K. (2023). Machine Learning and Deep Learning powered satellite communications: Enabling technologies, applications, open challenges, and future research directions. *International Journal of Satellite Communications and Networking*, 41(6), 539-588. **DOI:** 10.1002/sat.1482
- [4]. **Kumar, B. P., Reddy, N. H.,** Das, R. R., Dey, D., Sona, D. R., & Aarthy, M. (2023). Encryption and decryption of images with pixel data modification using hand gesture passcodes. *International Journal on Recent and Innovation Trends in Computing and Communication*, 11(4), 118–125. **DOI:** 10.17762/ijritcc.v11i4.6394
- [5]. **Singh, A., Prakash, K.,** Manda, P. A., Sona, D. R., & Das, R. R. (2024). Development of an autonomous UAS for on air surveillance and object detection: A real execution. *Journal of Electrical Engineering & Technology*, 19(1), 723-737. **DOI:** 10.1007/s42835-023-01573-1
- [6]. **Sharma, K.,** Kona, S. V. J., Jangwal, A., Aarthy, M., Rajabai, P. C., & Sona, D. R. (2023). Handwritten digits and optical characters recognition. *International Journal on Recent and Innovation Trends in Computing and Communication*, 11(4), 20–24. **DOI:** 10.17762/ijritcc.v11i4.6376
- [7]. **Pandey, A.,** Nair, T. R., & Thomas, S. B. (2022). Combination of K-means clustering and support vector machine for instrument detection. *SN Computer Science*, 3(2), 121. **DOI:** 10.1007/s42979-021-01011-x
- [8]. **Savargaonkar, H. A.,** Patil, H. Y., Jindal, S. K., Chandra, A., & Gawas, M. A. (2024). A scoping review on role of edge computing in search and rescue operations. *Wireless Personal Communications*, 138(2), 989-1026. **DOI:** 10.1007/s11277-024-11543-z
- [9]. **Jayasree, K., Kumar Hota, M., Dwivedi, A. K., Ranjan, H., & Srivastava, V. K.** (2025). Identification of exon regions in eukaryotes using fine-tuned variational mode decomposition based on kurtosis and short-time discrete Fourier transform. *Nucleosides, Nucleotides & Nucleic Acids*, 44(6), 507-530. **DOI:** 10.1080/15257770.2024.2388785
- [10]. **Aarthy, G., Kumar, L. B., Vaidya, M., Nema, S.,** Krishnan, P., Sangeetha, A., ... & Thangavel, K. (2025). Enhancing smart city connectivity: Implementing channel-adaptive strategies for FSO-based drone-assisted mobile access networks in urban environments. *IEEE Access*, 13, 47710-47721. **DOI:** 10.1109/ACCESS.2025.3549041

- [11]. **Pandey, A.**, Nair, T. R., & Thomas, S. B. (2022). Combination of K-means clustering and support vector machine for instrument detection. *SN Computer Science*, 3(2), 121. **DOI:** 10.1007/s42979-021-01011-x
- [12]. Vajiram, J., Sivakumar, S., Jena, R., & **Maurya, U.** (2024). Epilepsy detection by different modalities with the use of AI-assisted models. In *Artificial Intelligence and Applications* (Vol. 2, No. 3, pp. 204-217). **DOI:** 10.47852/bonviewAIA32021848
- [13]. Karuna, Y., Syamala, N., Ravikumar, C. V., **Thakur, P.**, & Saladi, S. (2025). Modified energy-based GAN for intensity in homogeneity correction in brain MR images. *Scientific Reports*, 15(1), 26409. **DOI:** 10.1038/s41598-025-08552-8

List of Conference Publication

- [1] . Aryan, R., **Kejriwal, V.**, Patel, V., Aggarwal, A., Khanna, V., Thomas, S. B., & Sangeetha, S. (2022). Left atrium segmentation using deep learning model. In *2022 IEEE 19th India Council International Conference (INDICON)* (pp. 1–5). IEEE. **DOI:** 10.1109/INDICON56171.2022.10039741.
- [2] . **Kejriwal, V.**, Sangeetha, S., Thomas, S. B., Patel, V., & Aryan, R. (2022). A compact frequency reconfigurable monopole filtenna. In *2022 International Conference on Disruptive Technologies for Multi-Disciplinary Research and Applications (CENTCON)* (pp. 64–67). IEEE. **DOI:** 10.1109/CENTCON56610.2022.10051592.
- [3] . Gangula, Y., **Srivastava, S.**, & Mohanty, A. (2023, August). Investigation of various machine learning techniques for banknote authentication. In *2023 3rd Asian Conference on Innovation in Technology (ASIANCON)* (pp. 1-5). IEEE. **DOI:** 10.1109/ASIANCON58793.2023.10270276.
- [4] . **Singam, M.**, Padavala, M., & Valarmathi, J. (2023, May). Hand gesture recognition based application using 60 ghz fmcw mimo radar. In *2023 2nd International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies (ViTECoN)* (pp. 1-6). IEEE. **DOI:** 10.1109/ViTECoN58111.2023.10157861.
- [5] . Sona, D. R., Das, R. R., & **Reddy, S. V.** (2023, December). Rainfall Presage Forecast Using Machine Learning Approach. In *2023 Innovations in Power and Advanced Computing Technologies (i-PACT)* (pp. 1-8). IEEE. **DOI:** 10.1109/i-PACT58649.2023.10434390.
- [6] . Bagadi, K., Annepu, V., Kumaravelu, V. B., **Naidu, N. M.**, Vankayala, S. K., & Yoon, S. (2024, July). An efficient 3-Dimensional node localization using recurrent neural networks in unmanned aerial vehicle-assisted wireless networks. In *2024 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)* (pp. 1-6). IEEE. **DOI:** 10.1109/CONECCT62155.2024.10677333.
- [7] . **Nandini, B. P.**, Reddy, P. S., Mary, G. I., Julian, A., & Rele, M. (2024, September). Smart watch with machine learning based fall detection system. In *2024 IEEE Region 10 Symposium (TENSYP)* (pp. 1-7). IEEE. **DOI:** 10.1109/TENSYP61132.2024.10752252.

- [8] . Reddy, L., **Niharika, K.**, Shankar, T., Patwari, A., Ravi, S., & Murali, J. (2025, July). Driver's Distraction prediction and classification on image and video feed. In *2025 International Conference on Sensors and Related Networks (SENNET) Special Focus on Digital Healthcare (64220)* (pp. 1-6). IEEE. **DOI:** 10.1109/SENNET64220.2025.11135925