

List of Publications

Journals (accepted & published):

1. **S. Maheshwari**, Kandala NVPS Rajesh, Vivek Kanhangad, U. Rajendra Acharya, and T. Sunil Kumar. "Entropy difference-based EEG channel selection technique for automated detection of ADHD." *PloS one*, vol. 20, no. 4 (2025).
DOI: <https://doi.org/10.1371/journal.pone.0319487>
2. Abhay B. Nayak, Aastha Shah, **S. Maheshwari**, Vijay Anand, Subrata Chakraborty and T. Sunil Kumar, "An empirical wavelet transform-based approach for motion artifact removal in electroencephalogram signals" *Elsevier Decision Analytics Journal*, vol. 10, 100420, 2024.
DOI: <https://doi.org/10.1016/j.dajour.2024.100420>
3. T. Sunil Kumar, Kandala N.V.P.S. Rajesh, **S. Maheshwari**, V. Kanhangad, and U. R. Acharya, "Automated Schizophrenia detection using local descriptors with EEG signals" *Elsevier Engineering Applications of Artificial Intelligence*, vol. 117(A), 105602, 2023. (Impact factor: 7.5)
DOI: <https://doi.org/10.1016/j.engappai.2022.105602>
4. Abhishek Iyer, Srimithritik Das, Reva Teotia, **S. Maheshwari**, Rishi Raj Sharma, "CNN and LSTM based Ensemble Learning for Human Emotion Recognition using EEG Recordings" *Springer Multimedia Tools and Applications*, vol. 82, pp. 4883–4896, April 2022.(Impact factor: 3)
DOI: <https://doi.org/10.1007/s11042-022-12310-7>
5. **S. Maheshwari**, Rishi Raj Sharma and Mohit Kumar, "LBP-based information assisted intelligent system for COVID-19 identification" *Elsevier Computers in Biology and Medicine*, vol. 134,104453, July 2021. (Impact factor: 7)
DOI: <https://doi.org/10.1016/j.compbiomed.2021.104453>
6. R. R. Sharma, M. Kumar, **S. Maheshwari** and K. P. Ray, "EVD-ARIMA based time series forecasting model and its application for COVID-19 cases", *IEEE Transactions on Instrumentation and Measurement*, vol. 70, pp. 1-10, Dec 2020. (Impact factor: 5.6)
DOI: <https://doi.org/10.1109/TIM.2020.3041833>
7. **S. Maheshwari**, V. Kanhangad, R. B. Pachori, S. V. Bhandary, and U. R. Acharya, "Automated glaucoma diagnosis using bit-plane slicing and local binary pattern techniques," *Elsevier Computers in Biology and Medicine*, vol. 105, pp. 72 – 80, Feb. 2019. (Impact Factor: 7)
DOI:<https://doi.org/10.1016/j.compbiomed.2018.11.028>
8. **S. Maheshwari**, R. B. Pachori, V. Kanhangad, S. V. Bhandary, and U. R. Acharya, "Iterative variational mode decomposition based automated detection of glaucoma using fundus images," *Elsevier Computers in Biology and Medicine*, vol. 88, pp. 142 – 149, Sept. 2017. (Impact Factor: 7)
DOI:<https://doi.org/10.1016/j.compbiomed.2017.06.017>
9. **S. Maheshwari**, R. B. Pachori and U. R. Acharya, "Automated diagnosis of glaucoma using empirical wavelet transform and correntropyfeatures extracted from fundus

images,” *IEEE Journal of Biomedical and Health Informatics*, vol. 21, no. 3, pp. 803-813, March 2016. (Impact Factor: 6.7)
DOI: <https://doi.org/10.1109/JBHI.2016.2544961>

Book Chapters(accepted & published):

1. **S. Maheshwari**, Kandala N V P S Rajesh, Usha Desai, and T. Sunil Kumar, “An Overview of Recent Approaches in Brain-Computer Interface Systems using Electroencephalography”, in *Human-Machine Interface Technology Advancements and Applications* (CRC Press), Taylor and Francis, 2023. (<https://doi.org/10.1201/9781003326830>)

Conferences(accepted & published):

1. **S. Maheshwari**, T. S. Kumar and Kandala N V P S Rajesh, “Schizophrenia detection using EntropyDifference-based Electroencephalogram ChannelSelection Approach,” 46thInternational Conference of the IEEE Engineering in Medicine & Biology Society, Orlando, Florida, USA, July2024.

2. **S. Maheshwari** and T. S. Kumar, “A Comparison of Local Descriptor-based Data Augmentation Techniques for Glaucoma Detection using Retinal Fundus Images,”IEEE 10thInternational Conference on e-Health and Bioengineering (EHB), Iasi, Romania, Nov. 2022, pp. 01-04. DOI: [10.1109/EHB55594.2022.9991688](https://doi.org/10.1109/EHB55594.2022.9991688).

3.**S. Maheshwari** and U. C. Pati, “Mosaicing of images using unsharp masking algorithm for interest point detection,” *2014 IEEE International Conference on Advanced Communications, Control and Computing Technologies*, Ramanathapuram, May 2014, pp. 1431-1434.DOI: [10.1109/ICACCCT.2014.7019338](https://doi.org/10.1109/ICACCCT.2014.7019338)