List of Publications

Journals (accepted & published):

1. 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

2. 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

3. Abhishek Iyer, Srimit Sritik 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

4. **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

5. 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

6. **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

7. **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

8. **S. Maheshwari**, R. B. Pachori and U. R. Acharya, "Automated diagnosis of glaucoma using empirical wavelet transform and correntropy features 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 Entropy Difference-based Electroencephalogram Channel Selection Approach," 46th International Conference of the IEEE Engineering in Medicine & Biology Society, Orlando, Florida, USA, July 2024.

2. **S. Maheshwari** and T. S. Kumar, "A Comparison of Local Descriptor-based Data Augmentation Techniques for Glaucoma Detection using Retinal Fundus Images," IEEE 10th International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, Nov. 2022, pp. 01-04. DOI: 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

In submission:

1. **S. Maheshwari**, V. Kanhangad, and R. B. Pachori, "CNN-based approach for glaucoma diagnosis using transfer learning and data augmentation," arXiv preprint arXiv 2002.08013, 2020. (in submission).

2. **S. Maheshwari**, T. Sunil Kumar, N.V.P.S. Rajesh, V. Kanhangad, and U. R. Acharya, "Novel entropy difference-based EEG channel selection technique for automated detection of ADHD" in submission to **Expert Systems with Applications**.

3. Koundinya Jallepalli, **S. Maheshwari**, and Rishi Raj Sharma, "Intellectual Developmental Disorder Identification Using EEG signals in submission (**Computers in Biology and Medicine**).

In preparation:

1. **S. Maheshwari**, S.T. Setti, “ECG-based channel and detecting different stages of anxiety”.

2. **S. Maheshwari**, S.T. Setti “Feature-based detection of diabetic retinopathy from retinal fundus images”.

3. S.T. Setti, and **S. Maheshwari**, “Automated detection of schizophrenia”.