

## **Dr. M SUCHETHA**

### **RESEARCH PUBLICATIONS**

1. Srinivasan Lekha, M Suchetha,” Real-time non-invasive detection and classification of diabetes using modified convolution neural network” IEEE journal of biomedical and health informatics, vol 22, issue 5, September 2017.
2. A Smruthy, M Suchetha, “Real-time classification of healthy and apnea subjects using ECG signals with variational mode decomposition” IEEE sensors journal, vol 17, issue 10, April 2017.
3. M. Suchetha, J. Joseph Antony “Vision Based Vehicle Detection: A Literature Review” International Journal of Applied Engineering Research, vol 11, issue 5, 2016.
4. M Suchetha, N Kumaravel, M Jagannath, Saravana Kumar Jaganathan, “A comparative analysis of EMD based filtering methods for 50 Hz noise cancellation in ECG signal” International journal of Informatics in Medicine Unlocked, Elsevier, vol 8, January 2017.
5. S Lekha, M Suchetha “A novel 1-D convolution neural network with SVM architecture for real-time detection applications” IEEE Sensors Journal, vol 18, issue 2, December 2017.
6. Bhaskar Navaneeth, M Suchetha “PSO optimized 1-D CNN-SVM architecture for real-time detection and classification applications” International journal of Computers in biology and medicine, vol 108, May 2019.
7. Suchetha, Lekha, “Non-invasive diabetes detection and classification using breath analysis” ICCSP, vol 1, issue 1, 2015.
8. Suchetha Manikandan, Kumaravel Natesan, “A novel approach for the reduction of 50Hz noise in electrocardiogram using variational mode decomposition” International journal of Current Signal Transduction Therapy, vol 12, issue 1, April 2017.
9. Navaneeth Bhaskar, Suchetha Manikandan “A Deep-Learning-Based System for Automated Sensing of Chronic Kidney Disease” IEEE Sensors Letters, vol 3, issue 10, September 2019.
10. Srinivasan Lekha, Suchetha Manikandan “Srinivasan Lekha, Suchetha Manikandan” IET Circuits, Devices & Systems, vol 11, issue 6, September 2017.

11. Navaneeth Bhaskar, M Suchetha “Analysis of salivary components as non-invasive biomarkers for monitoring chronic kidney disease”, International Journal of Medical Engineering and Informatics, vol 12, issue 2, 2020.
12. D Bhagya, Suchetha Manikandan, “Speed of Sound-Based Capnographic Sensor With Second-Generation CNN for Automated Classification of Cardiorespiratory Abnormalities” IEEE Sensors Journal, vol 19, issue 19, June 2019.
13. Suchetha, Anant, “IoT based Low Power Wearable ECG Monitoring System” International journal of Current Signal Transduction Therapy, vol 14, issue 1, 2019.
14. Deepika M.Suchetha. “A Feature based Detection method using segmented MRI images for Alzheimer’s disease diagnosis” Journal of Chemical and Pharmaceutical Sciences, vol 9, issue 1, 2016.
15. Bhaskar Navaneeth, M Suchetha, “A dynamic pooling based convolutional neural network approach to detect chronic kidney disease” Biomedical Signal Processing and Control, vol 62, September 2020.
16. S Lekha, M Suchetha “Recent Advancements and Future Prospects on E-Nose Sensors Technology and Machine Learning Approaches for Non-Invasive Diabetes Diagnosis: A Review”, IEEE Reviews in Biomedical Engineering, IEEE, May 2020.
17. Navaneeth Bhaskar, M Suchetha, “An Approach for Analysis and Prediction of CKD using Deep Learning Architecture” 2019 International Conference on Communication and Electronics Systems (ICCES), July 2019.
18. A Smruthy, M Suchetha “An Empirical Mode Decomposition-Based Method for Feature Extraction and Classification of Sleep Apnea” Computational Signal Processing and Analysis, 2018.
19. S Lekha, M Suchetha “Non-invasive prediction of diabetes through breath analysis: a literature review” International Journal of Biomedical Engineering and Technology, vol 24, issue 1, 2017.
20. Navaneeth Bhaskar, M Suchetha, Nada Y Philip, “Time series classification based correlational neural network with bidirectional LSTM for automated detection of kidney disease” IEEE Sensors Journal, October 2020.
21. N Bhaskar, M Suchetha, “A Computationally Efficient Correlational Neural Network for Automated Prediction of Chronic Kidney Disease” Elsevier Masson, July 2020.
22. Suchetha Bhagya. “A Capnographic Sensor using Acoustic Virial Equation for diagnostic applications” IEEE SENSORS LETTERS, July 2020.

23. Suchetha “VMD based Retinal Area Detection using SLO Image’ ICSP, vol 1, issue 1, 2019.
24. S Lekha, M Suchetha “A Method for Detection and Classification of Diabetes Noninvasively” Computational Signal Processing and Analysis, 2018.
25. M Suchetha, M Jagannath “Biosignal Denoising Techniques” Handbook of Research on Information Security in Biomedical Signal Processing, 2018.
26. Suchetha M, Kumaravel, “A novel approach for the reduction of 50Hz noise in electrocardiogram using variational mode decomposition” Current signal transduction therapy, vol 12, issue 1, 2017.
27. DYLAN ROYCE FERNANDES, M SUCHETHA, “FIELD-PROGRAMMABLE GATE ARRAY IMPLEMENTATION OF EMPIRICAL MODE DECOMPOSITION ALGORITHM FOR ELECTROCARDIOGRAM PROCESSING” 2017.
28. Suchetha, M. Dayanandha ,” Dual AGC model based implementation of Auditory Nerve” Journal of Chemical and Pharmaceutical Sciences, vol 9, issue 1, 2016.
29. Suchetha, Deepika ” A Novel Approach based on Merging of Super pixels for Retinal Area Detection in SLO Image” Journal of Chemical and Pharmaceutical Sciences, vol 9, issue 4, 2016.
30. suchetha, anant, “Empirical Mode Decomposition based Classification Method for Seizure/Non-Seizures Signals” Journal of Chemical and Pharmaceutical Sciences, vol 9, issue 4, 2016.
31. S Lekha, M Suchetha “Non-invasive technique using breath analysis for detection and classification of diabetes” International Journal of Engineering & Technology, vol 4, issue 3, July 2015.
32. Suchetha, Deepika, “MRI Image Fusion Method based on Classification of BEMD Components” International Journal of Applied Engineering Research, vol 10, issue 17, 2015.