

LIST OF PUBLICATIONS

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JOURNAL PUBLICATIONS

1. Geethanjali, B., Adalarasu, K., **Jagannath, M.** and Guhan Seshadri, N.P., 'Music Induced Brain Functional Connectivity using EEG Sensors: A Study on Indian Music', IEEE Sensors Journal, Vol. 19, No. 4, pp. 1499-1507, 2019. (IF – 2.617)
2. Shanmathi, N. and **Jagannath, M.**, 'Computerised Decision Support System for Remote Health Monitoring: A Systematic Review', Innovation and Research in BioMedical Engineering, 2018 (Article in Press) (IF – 0.897)
3. Geethanjali, B., Adalarasu, K., **Jagannath, M.** and Guhan Seshadri, N.P., 'Music induced emotion using wavelet packet decomposition—An EEG study', Biomedical Signal Processing and Control, Vol. 42, 2018, pp. 115-128. (IF – 2.783)
4. Rajeswari, J. and **Jagannath, M.**, 'Sleep apnea detection algorithms and methods using electrophysiological signals: A review of the literature', Transylvanian Review, Vol. XXVI, No. 30, pp. 8079-8087, 2018. (IF – 0.045)
5. Manikandan, A., Mohan, P.M., Saravanakumar, J., Rajasekar, M. and **Jagannath, M.**, 'Formation of functional nanofibrous electrospun polyurethane and murivenna oil with improved haemocompatibility for wound healing', Polymer Testing, Vol. 61, 2017, pp. 106-113. (IF – 2.247)
6. Balasubramanian, V., **Jagannath, M.** and Adalarasu, K., 'Muscle fatigue based evaluation of bicycle design', Applied Ergonomics, Vol. 45, No. 2, 2014, pp. 339 – 345. (IF – 2.435)
7. Balasubramanian, V. and **Jagannath, M.**, 'Detecting motorcycle rider local physical fatigue and discomfort using surface electromyography and seat interface pressure', Transportation Research Part F: Traffic Psychology and Behaviour, Vol. 22, 2014, pp. 150 – 158. (IF – 1.935)
8. **Jagannath, M.** and Balasubramanian, V. 'Assessment of early onset of driver fatigue using multimodal fatigue measures in a static simulator', Applied Ergonomics, Vol. 45, No. 4, 2014, pp. 1140 – 1147. (IF – 2.435)
9. Geethanjali, B., Adalarasu, K., **Jagannath, M.** and Rajasekaran, R., 'Enhancement of task performance aided by music', Current Science, Vol. 111, No. 11, 2016, pp. 1794-1801. (IF – 0.883)
10. Aswathy, M.A. and **Jagannath, M.**, 'Detection of breast cancer on digital histopathology images: Present status and future possibilities', Informatics in Medicine Unlocked, Vol. 8, 2017, pp. 74-79.
11. Suchetha, M., Kumaravel, N., **Jagannath, M.** and Saravana Kumar Jaganathan, 'A comparative analysis of EMD based filtering methods for 50 Hz noise cancellation in ECG signal', Informatics in Medicine Unlocked, Vol. 8, 2017, pp. 54-59.
12. Latha, R., Vetrivelan, P. and **Jagannath, M.**, 'Balancing emergency message dissemination and network lifetime in wireless body area network using ant colony optimization and Bayesian game formulation', Informatics in Medicine Unlocked, Vol. 8, 2017, pp. 60-65.
13. Rajeswari, J. and **Jagannath, M.**, 'Advances in biomedical signal and image processing – A systematic review', Informatics in Medicine Unlocked, Vol. 8, No. 1, 2017, pp. 13-19.
14. Shrisowmya, P., Adalarasu, K. and **Jagannath, M.**, 'Examination of cognitive workload using different modalities', Research Journal of Pharmacy and Technology, Vol. 12, No. 10, pp. 4647-4650, 2019.
15. Apoorv, K., Manan, G., Garima, S. and **Jagannath, M.**, 'Heavy machinery condition and risk monitoring system for industrial automation', International Journal of Recent Technology and Engineering, Vol. 8, No. 4, pp. 8547-8550, 2019.
16. Kevin, C., Rahul, D. and **Jagannath, M.**, 'Design of sensor technology based smart home system', International Journal of Innovative Technology and Exploring Engineering, Vol. 8,

17. Jayasurya, J., Seenu, R. and **Jagannath, M.**, 'Vehicle Classification and distance estimation using support vector machine', *International Journal of Innovative Technology and Exploring Engineering*, Vol. 8, No. 7, pp. 2175-2178, 2019.
18. **Jagannath, M.**, Madan Mohan, C., Aswin Kumar, Aswathy, M.A. and Nathiya, N., 'Design and testing of a spirometer for pulmonary functional analysis', *International Journal of Innovative Technology and Exploring Engineering*, Vol. 8, No. 4, pp. 343-347, 2019.
19. **Jagannath, M.**, Adalarasu, K., Nathiya, N. and Ramesh, R., 'Analysis of Cycling-Related Musculoskeletal Disorders among School Girls', *Biomedicine*, Vol. 38, No. 3, 2018, pp. 371- 377.
20. Vanitha Katherine A., T. Kamalavalli, T., S. Vinothini, S., **Jagannath, M.** and V.E. Jayanthi, V.E., 'Modern very fast decision tree model for mining high-speed time-series data stream', *International Journal of Engineering & Technology (UAE)*, Vol. 7, No. 4.39, pp. 492-496, 2018.
21. Shanmathi, N. and **Jagannath, M.**, 'Real-time decision support system for pharmaceutical applications', *Research Journal of Pharmacy and Technology*, Vol. 11, No. 11, pp. 4929-4933, 2018.
22. Shanmathi, N. and **Jagannath, M.**, 'Multimodal biosignal acquisition system for remote health monitoring', *Research Journal of Pharmacy and Technology*, Vol. 11, No. 12, pp. 5265-5268, 2018.
23. Jayanthi, V.E., Divya, R. and **Jagannath, M.**, 'A review on optimization approaches in cloud computing service', *International Journal of Engineering & Technology (UAE)*, Vol. 7, No. 3.24, pp. 517-521, 2018.
24. Mohanavelu, K., Poonguzhali, S., Banuvathy, R., Adalarasu, K. and **Jagannath, M.**, 'Biosignal processing approaches for detecting mental fatigue', *Indian Journal of Public Health Research & Development*, Vol. 9, No. 10, pp. 236-241, 2018.
25. Pradeep, K., Jayanthi, V.E., Hemalatha, K., Adalarasu, K. and **Jagannath, M.**, 'Three-dimensional finite element analysis of surface mesh model of human tibia bone', *Research Journal of Pharmacy and Technology*, Vol. 11, No. 7, pp. 2752-2756, 2018.
26. Geethanjali, B., Adalarasu, K. and **Jagannath, M.**, 'Music induced emotion and music processing in the brain– a review', *Journal of Clinical and Diagnostic Research*, Vol. 12, No. 1, 2018, pp. VE01-VE03.
27. Sasikumar, K., Ashija, P.A., **Jagannath, M.**, Adalarasu, K. and Nathiya, N., 'A hybrid approach based on PCA and LBP for facial expression analysis', *ARPN Journal of Engineering and Applied Sciences*, Vol. 13, No. 1, pp. 302-308, 2018.
28. Mohanavelu, K., Lamshe, R., Poonguzhali, S., Adalarasu, K. and **Jagannath, M.**, 'Assessment of human fatigue during physical performance using physiological signals: a review', *Biomedical Pharmacology Journal*, Vol. 10, No. 4, 2017, pp. 1887-1896.
29. Nathiya, N., Sasikumar, K., **Jagannath, M.**, Thangaraj, M. and Adalarasu, K., 'An observational study on occupational stress among physiotherapists', *Biomedical & Pharmacology Journal*, Vol. 10, No. 2, 2017, pp. 889-894.
30. Rajeswari, J., **Jagannath, M.** and Adalarasu, K., 'A Review on Detection and Treatment Methods of Sleep Apnea', *Journal of Clinical and Diagnostic Research*, Vol. 11, No. 3, 2017, pp. VE01-VE03.
31. Geethanjali, B., Adalarasu, K., **Jagannath, M.** and Rajasekaran, R., 'Influence of pleasant and unpleasant music on cardiovascular measures and task performance', *International Journal of Biomedical Engineering and Technology*, Vol. 21, No. 2, 2016, pp. 128-144.
32. Sundar Raj, M., Adalarasu, K., **Jagannath, M.** and Vinodhini, 'Emotional state assessment: Valence and arousal evaluation via EEG analysis', *International Journal of Pharmacy & Technology*, Vol. 8, No. 3, 2016, pp. 15712-15716.
33. Rajeswari, J., Aiswariyadevi, D. and **Jagannath, M.**, 'Design and development of prescription reader for pharmacists', *International Journal of Pharmacy & Technology*, Vol. 8, No. 3, 2016, pp. 16207-16213.
34. Sundar Raj, M., Adalarasu, K., **Jagannath, M.** and Bala Saranya, R., 'Assessment of cognitive

35. status from EEG data using independent component analysis', International Journal of Pharma and Bio Sciences, Vol. 7, No. 3, 2016, pp. 1149-1153.
36. Jagannath, M., 'Influence of practical factors affecting electrophysiological signal acquisition', International Journal of Pharmacy & Technology, Vol. 8, No. 1, 2016, pp. 10406-10416.
37. Jagannath, M. and Adalarasu, K., 'Diagnosis of diabetic retinopathy from fundus image using fuzzy c-means clustering algorithm', Journal of Institute of Integrative Omics and Applied Biotechnology, Vol. 6, No. 4, 2015, pp. 3-9.
38. Dhanalakshmi, P., Adalarasu, K., AravindKrishna, T., Jagannath, M. and Sundar Raj, M., 'Concepts and approaches on human computer interaction - A review', International Journal of Pharmacy & Technology, Vol. 7, No. 2, 2015, pp. 3371-3379.
39. Ezhil, A.J., Adalarasu, K., Jagannath, M. and AravindKrishna, T., 'Observing human behavior from facial expression analysis', Biomedicine, Vol. 35, No. 2, 2015, pp. 125-132.
40. **Jagannath, M.**, Vetrivelan, P. and Adalarasu, K., 'An expert system for assessing solid fuel pollutants from traditional cook-stoves', ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 13, 2015, pp. 5666-5671.
41. Sharon Priyanka, S., Vetrivelan, P., Ratheesh, R. and **Jagannath, M.**, 'Decode and forward strategies of cooperative relaying in next generation wireless communication', International Journal of Applied Engineering Research, Vol. 10, No. 7, 2015, pp. 18141-18152.
42. **Jagannath, M.**, Adalarasu, K. and Karthik Srinivas, S., 'Automatic feeding system for upper- limb amputees', International Journal of Applied Engineering Research, Vol. 10, No. 36, 2015, pp. 27686-27689.
43. **Jagannath, M.**, Adalarasu, K. and Karthik Srinivas, S., 'Design of temperature data-logger for biomass cook-stoves', International Journal of Applied Engineering Research, Vol. 10, No. 10, 2015, pp. 9815-9819.

Conference Publications:

1. Seenu, R., Pooja, M.A. and **Jagannath, M.**, 'ECG based bio-authentication system', Proceedings of the National Conference on Science, Engineering and Technology (NCSET), Vellore Institute of Technology (VIT), Chennai, November 12-13, 2018.
2. Sravani, C., **Jagannath, M.** and Adalarasu, K., 'Railway Signalling using ZigBee Wireless Technology' Proceeding of the International Conference on Systems Design and Engineering (ICSDE'17), SASTRA University, Thanjavur, December 11-12, 2017.
3. Prakash, A.R., **Jagannath, M.**, Adalarasu, K. and Mohan, B.G., 'Vehicle license plate detection and recognition using non-blind image de-blurring algorithm', In Proceedings of the International Conference on NextGen Electronic Technologies: Silicon to Software, VIT University Chennai, India, March 23-25, 2017, ISBN: 978-1-5090-5913-3.
4. Sujay, B., **Jagannath, M.** and Arun, V.K., 'Wireless data acquisition and communication system for automated guided vehicle', International Conference on NextGen Electronic Technologies: Silicon to Software, VIT University Chennai, India, March 23-25, 2017.
5. Bindu Bhargav Kumar, S. and **Jagannath, M.**, 'Analysis of phonocardiogram signal for biometric identification system', Proceedings of the International Conference on

Pervasive Computing, Sinhgad College of Engineering, Pune, January 8-10, 2015, pp. 154-157.

6. BalaSaranya, R., Adalarasu, K. and **Jagannath, M.**, 'Evaluation of cognitive status using independent component analysis of EEG signal', Proceedings of the National Conference on Recent Trends in Instrumentation Applications, National Engineering College, Tamilnadu, February 26-27, 2015, pp. 81-85.
7. Ezhil, A.J., Adalarasu, K. and **Jagannath, M.**, 'A principal component analysis based recognition of facial expression', Proceedings of the National Conference on Recent Trends in Instrumentation Applications, National Engineering College, Tamilnadu, February 26-27, 2015, pp. 86-90.
8. **Jagannath, M.**, Adalarasu, K. and Kartthik Srinivas, S., 'Design of temperature data-logger for biomass cook-stoves', Proceedings of the International Conference on Innovative Strategies in Renewable Energy and its Applications (ISREA), Sona College of Engineering, Tamilnadu, India, March 5-6, 2015.
9. **Jagannath, M.**, Vetrivelan, P. and Adalarasu, K., 'An expert system for assessing solid fuel pollutants from traditional cook-stoves', Proceedings of the International Conference on Innovations in Information Embedded and Communication Systems (ICIIECS), Karpagam College of Engineering, Tamilnadu, India, March 19-20, 2015, pp. 1206-1211.
10. **Jagannath, M.**, Adalarasu, K. and Kartthik Srinivas, S., 'Automatic feeding system for upper- limb amputees', Proceedings of the National Conference of Advances in Electrical and Electronics Engineering (NCAEEE – 2015), Sri Venkateswara College of Engineering, Tamilnadu, India, April 17-18, 2015, pp. 245-248.