

LIST OF PUBLICATIONS

1. **Sugumaran V.**, Jegadeeshwaran R., Brake fault diagnosis using Clonal Selection Classification Algorithm (CSCA) – A statistical learning approach, 2015, Engineering Science and Technology, an International Journal,18, 1, pp.(14-23).
2. **Sugumaran V.**, Indira V., Vasanthakumari R., Jegadeeshwaran R., Determination of mini- mum sample size for fault diagnosis of automobile hydraulic brake system using power analysis, 2015, Engineering Science and Technology, an International Journal,18, 1, pp.(59-69).
3. Jegadeeshwaran R., **Sugumaran V.**, Health monitoring of a hydraulic brake system using nested dichotomy classifier – A machine learning approach, 2015, International Journal of Prognostics and Health Management,6, 1, pp.(1-10).
4. **Sugumaran V.**, Praveen H.M., Harvesting vertical vibration of automotive tyre to monitor tyre pressure using applied machine learning technique, 2015, International Journal of Applied Engineering Research,10, 14, pp.(34501-34508).
5. Jegadeeshwaran R., **Sugumaran V.**, Fault diagnosis of automobile hydraulic brake system using statistical features and support vector machines, 2015, Mechanical Systems and Signal Processing,52-53, 1, pp.(436-446).
6. Satishkumar R., **Sugumaran V.**, Remaining useful life time prediction of bearing using Naïve Bayes and Bayes net classifiers, 2015, International Journal of Applied Engineering Research,10, 14, pp.(34527-34531).
7. Satishkumar R., **Sugumaran V.**, Remaining life time prediction of bearings through classification using decision tree algorithm, 2015, International Journal of Applied Engineering Research,10, 14, pp.(34861-34866).
8. Shalet K.S., **Sugumaran V.**, Jegadeeshwaran R., Elangovan M., Condition monitoring of single point cutting tool using arma features and SVM classifiers, 2015, International Journal of Applied Engineering Research,10, 3, pp.(8401-8416).
9. Muralidharan A., **Sugumaran V.**, Soman K.P., Amarnath M., Fault diagnosis of helical gear box using variational mode decomposition and random forest algorithm, 2015, SDHM Structural Durability and Health Monitoring,10, 1, pp.(55-80).
10. Elangovan M., Sakthivel N.R., Saravanamurugan S., Nair B.B., **Sugumaran V.**, Machine learning approach to the prediction of surface roughness using statistical features of vibration signal acquired in turning, 2015, Procedia Computer Science,50, , pp.(282-288).
11. Rebecca Jeya Vadhanam B., Mohan S., **Sugumaran V.**, Vani V., Ramalingam V.V., Computer vision based classification on commercial videos, 2016, Multi-Core Computer Vision and Image Processing for Intelligent Applications,, , pp.(105-135).
12. Ramalingam V.V., Mohan S., **Sugumaran V.**, Vani V., Rebecca Jeya Vadhan B., Controlling prosthetic limb movements using EEG signals, 2016, Multi-Core Computer Vision and Image Processing for Intelligent Applications,, , pp.(211-233).
13. Rajesh Kanna K., **Sugumaran V.**, Vijayaram T.R., Karthikeyan C.P., Activities of daily life (ADL) recognition using wrist-worn accelerometer, 2016, International Journal of Engineering and Technology,8, 3, pp.(1406-1413).

14. Shankar Sowmien V., **Sugumaran V.**, Karthikeyan C.P., Vijayaram T.R., Diagnosis of hepatitis using decision tree algorithm, 2016, International Journal of Engineering and Technology, 8, 3, pp.(1414-1419).
15. Sakthivel N.R., Saravanamurugan S., Nair B.B., Elangovan M., **Sugumaran V.**, Effect of kernel function in support vector machine for the fault diagnosis of pump, 2016, Journal of Engineering Science and Technology, 11, 6, pp.(826-838).
16. Joshuva A., **Sugumaran V.**, Fault diagnostic methods for wind turbine: A review, 2016, ARPN Journal of Engineering and Applied Sciences, 11, 7, pp.(4654-4668).
17. Rebecca Jeya Vadhanam B., Mohan S., **Sugumaran V.**, Application of artificial immune recognition system for identification of Advertisement video frames using BICC features, 2016, Indian Journal of Science and Technology, 9, 14, pp.(-).
18. Ramalingam V.V., Mohan S., **Sugumaran V.**, Prosthetic arm control using Clonal Selection Classification Algorithm (CSCA) - a statistical learning approach, 2016, Indian Journal of Science and Technology, 9, 16, pp.(-).
19. Satishkumar R., **Sugumaran V.**, Vibration based health assessment of bearings using Random forest classifier, 2016, Indian Journal of Science and Technology, 9, 10, pp.(-).
20. Satishkumar R., **Sugumaran V.**, Estimation of remaining useful life of bearings based on Support Vector Regression, 2016, Indian Journal of Science and Technology, 9, 10, pp.(-).
21. Satishkumar R., **Sugumaran V.**, Estimation of remaining useful life of bearings based on nested dichotomy classifier - a machine learning approach, 2016, International Journal of Engineering and Technology, 8, 1, pp.(339-349).
22. Muralidharan V., **Sugumaran V.**, SVM-based wavelet selection for fault diagnosis of monoblock centrifugal pump, 2016, International Journal of Data Analysis Techniques and Strategies, 8, 4, pp.(357-369).
23. Bahri A., **Sugumaran V.**, Jegadeeshwaran R., Devasenapati S.B., Misfire detection in spark-ignition engine using statistical learning theory, 2016, International Journal of Performability Engineering, 12, 1, pp.(79-88).
24. Kumar H., **Sugumaran V.**, Amarnath M., Fault diagnosis of bearings through sound signal using statistical features and bayes classifier, 2016, Journal of Vibrational Engineering and Technologies, 4, 2, pp.(87-96).
25. Gajre M.N., Jegadeeshwaran R., **Sugumaran V.**, Talbar A., Vibration based fault diagnosis of automobile hydraulic brake system using fuzzy logic with best first tree rules, 2016, International Journal of Vehicle Structures and Systems, 8, 4, pp.(214-218).
26. Mohanaraman P., Balamurugamohanraj G., Vijaiyendiran K., Sugumaran V., Prediction of surface roughness based on machining condition and tool condition in boring EN31 steel, 2016, International Journal of Engineering and Technology, 8, 2, pp.(1223-1228).
27. Rebecca Jeya Vadhanam B., Mohan S., **Sugumaran V.**, Ramalingam V.V., Exploiting BICC features for classification of advertisement videos using RIDOR algorithm, 2017, Proceedings - 2016 International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2016,, , pp.(247-252).
28. Joshuva A., **Sugumaran V.**, Classification of various wind turbine blade faults through vibration signals using hyperpipes and voting feature intervals algorithm, 2017, International Journal of Performability Engineering, 13, 3, pp.(247-258).

29. Joshuva. A., **Sugumaran. V.**, A data driven approach for condition monitoring of wind turbine blade using vibration signals through best-first tree algorithm and functional trees algorithm: A comparative study, 2017, ISA Transactions,67, , pp.(160-172).
30. Prasanna Lakshmi G., Helen Santhi M., **Sugumaran V.**, Vibration test on RCC C slab bridge model for condition monitoring, 2017, International Journal of Civil Engineering and Technology,8, 3, pp.(1034-1042).
31. Joshuva A., **Sugumaran V.**, A comparative study of Bayes classifiers for blade fault diagnosis in wind turbines through vibration signals, 2017, SDHM Structural Durability and Health Monitoring,12, 1, pp.(69-90).
32. Anoop P.S., **Sugumaran V.**, Classifying machine learning features extracted from vibration signal with logistic model tree to monitor automobile tyre pressure, 2017, SDHM Structural Durability and Health Monitoring,11, 2, pp.(191-208).
33. Satishkumar R., **Sugumaran V.**, Remaining life time prediction of bearings using K-star algorithm – a statistical approach, 2017, Journal of Engineering Science and Technology,12, 1, pp.(168-181).
34. Pranesh S.K., Abraham S., **Sugumaran V.**, Amarnath M., Fault diagnosis of helical gearbox using acoustic signal and wavelets, 2017, IOP Conference Series: Materials Science and Engineering,197, 1, pp.(.).
35. Sharma R.K., **Sugumaran V.**, Kumar H., Amarnath M., Condition monitoring of roller bearing by K-star classifier and K-nearest neighborhood classifier using sound signal, 2017, SDHM Structural Durability and Health Monitoring,12, 1, pp.(1-16).
36. Alamelu Manghai T.M., Jegadeeshwaran R., **Sugumaran V.**, Brake fault diagnosis through machine learning approaches - A review, 2017, SDHM Structural Durability and Health Monitoring,12, 1, pp.(43-67).
37. Gangadhar N., Kumar H., Narendranath S., **Sugumaran V.**, Condition monitoring of single point cutting tools based on machine learning approach, 2018, International Journal of Acoustics and Vibrations,23, 2, pp.(131-137).
38. Senthil Kumar P., Sridhar Babu B., **Sugumaran V.**, Comparative modeling on surface roughness for roller burnishing process, using fuzzy logic, 2018, International Journal of Mechanical and Production Engineering Research and Development,8, 1, pp.(43-64).
39. Joshuva A., **Sugumaran V.**, A study of various blade fault conditions on a wind turbine using vibration signals through histogram features, 2018, Journal of Engineering Science and Technology,13, 1, pp.(102-121).
40. Alamelu Mangai M., Jegadeeshwaran R., **Sugumaran V.**, Vibration based condition monitoring of a brake system using statistical features with logit boost and simple logistic algorithm, 2018, International Journal of Performability Engineering,14, 1, pp.(1-8).
41. Manju B.R., Joshuva A., **Sugumaran V.**, A data mining study for condition monitoring on wind turbine blades using hoeffding tree algorithm through statistical and histogram features, 2018, International Journal of Mechanical Engineering and Technology,9, 1, pp.(1061-1079).
42. Aravinth, S., **Sugumaran, V.**, Air compressor fault diagnosis through statistical feature extraction

and random forest classifier, 2018, Progress in Industrial Ecology, 12(1-2), pp. (192-205).

43. Joshua, A., **Sugumaran, V.**, A machine learning approach for condition monitoring of wind turbine blade using autoregressive moving average (ARMA) features through vibration signals: A comparative study, 2018, Progress in Industrial Ecology 12(1-2), pp. (14-34).
44. Mulay, S., **Sugumaran, V.**, Babu Devasenapati, S., Misfire detection in I.C. engine through ARMA features using machine learning approach, 2018, Progress in Industrial Ecology 12(1-2), pp. (93-111).
45. Joshua, A., **Sugumaran, V.**, Selection of a meta classifier-data model for classifying wind turbine blade fault conditions using histogram features and vibration signals: A data-mining study, 2019, Progress in Industrial Ecology 13(3), pp. (232 - 251).
46. Joshua, A., **Sugumaran, V.**, Improvement in wind energy production through condition monitoring of wind turbine blades using vibration signatures and ARMA features: A data- driven approach, 2019, Progress in Industrial Ecology 13(3), pp. (207 - 231).
47. Joshua, A., **Sugumaran, V.**, Crack detection and localization on wind turbine blade using machine learning algorithms: A data mining approach, 2019, SDHM Structural Durability and Health Monitoring 13(2), pp. (181-203).
48. Joshua, A., Aslesh, A.K.,**Sugumaran, V.**, State of the art of structural health monitoring of wind turbines, 2019, International Journal of Mechanical and Production Engineering Research and Development 9(5), pp. (95-112).
49. Saran, J., Elangovan, M.,**Sugumaran, V.**, State of the art of structural health monitoring of wind turbines, 2019, International Journal of Mechanical and Production Engineering Research and Development 9(5), pp. (53-62).
50. Azam, A.B., Amarnath, M.,**Sugumaran, V.**, Classification of roller bearing faults using iterative classifier, 2019, International Journal of Mechanical and Production Engineering Research and Development 9(5), pp. (833–840).
51. Joshua, A., **Sugumaran, V.**, A lazy learning approach for condition monitoring of wind turbine blade using vibration signals and histogram features, 2019, Measurement: Journal of the International Measurement Confederation, In Press <https://doi.org/10.1016/j.measurement.2019.107295>.