

# V Sugumaran

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79  
papers

2,243  
citations

26  
h-index

46  
g-index

91  
ext. papers

2,714  
ext. citations

3  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
79	Predictive Analysis of Online Television Videos Using Machine Learning Algorithms <b>2022</b> , 237-257		1
78	Machine vision based fault diagnosis of photovoltaic modules using lazy learning approach. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 191, 110786	4.6	1
77	Effect of wheel balancing on tyre condition monitoring system using vibration signals through statistical features and machine learning techniques. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2022</b> , 1-13 <sup>1.6</sup>	1.6	1
76	Fault diagnosis of visual faults in photovoltaic modules: A Review. <i>International Journal of Green Energy</i> , <b>2021</b> , 18, 37-50	3	10
75	Comparative Study on Tool Fault Diagnosis Methods Using Vibration Signals and Cutting Force Signals by Machine Learning Technique. <i>SDHM Structural Durability and Health Monitoring</i> , <b>2020</b> , 14, 127-145 <sup>1.9</sup>	1.9	9
74	A lazy learning approach for condition monitoring of wind turbine blade using vibration signals and histogram features. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 152, 107295	4.6	18
73	Improvement in wind energy production through condition monitoring of wind turbine blades using vibration signatures and ARMA features: a data-driven approach. <i>Progress in Industrial Ecology</i> , <b>2019</b> , 13, 207	0.8	9
72	Selection of a meta classifier-data model for classifying wind turbine blade fault conditions using histogram features and vibration signals: a data-mining study. <i>Progress in Industrial Ecology</i> , <b>2019</b> , 13, 232	0.8	11
71	Crack Detection and Localization on Wind Turbine Blade Using Machine Learning Algorithms: A Data Mining Approach. <i>SDHM Structural Durability and Health Monitoring</i> , <b>2019</b> , 13, 181-203	1.9	13
70	Comparative Study on Tree Classifiers for Application to Condition Monitoring of Wind Turbine Blade through Histogram Features Using Vibration Signals: A Data-Mining Approach. <i>SDHM Structural Durability and Health Monitoring</i> , <b>2019</b> , 13, 399-416	1.9	9
69	Misfire detection in I.C. engine through ARMA features using machine learning approach. <i>Progress in Industrial Ecology</i> , <b>2018</b> , 12, 93	0.8	1
68	A machine learning approach for condition monitoring of wind turbine blade using autoregressive moving average (ARMA) features through vibration signals: a comparative study. <i>Progress in Industrial Ecology</i> , <b>2018</b> , 12, 14	0.8	10
67	A Comparative Study for Condition Monitoring on Wind Turbine Blade using Vibration Signals through Statistical Features: a Lazy Learning Approach. <i>International Journal of Engineering and Technology(UAE)</i> , <b>2018</b> , 7, 190	0.8	3
66	Air compressor fault diagnosis through statistical feature extraction and random forest classifier. <i>Progress in Industrial Ecology</i> , <b>2018</b> , 12, 192	0.8	6
65	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. <i>ISA Transactions</i> , <b>2017</b> , 67, 160-172	5.5	48
64	Wind Turbine Blade Fault Diagnosis Using Vibration Signals through Decision Tree Algorithm. <i>Indian Journal of Science and Technology</i> , <b>2017</b> , 9,	1	4
63	Fault diagnosis of helical gearbox using acoustic signal and wavelets. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 197, 012079	0.4	0

62	A Comparative study between Support Vector Machine (SVM) and Extreme Learning Machine (ELM) for Fault Detection in Pumps. <i>Indian Journal of Science and Technology</i> , <b>2017</b> , 9,	1	1
61	Controlling Prosthetic Limb Movements Using EEG Signals. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2017</b> , 211-233	0.4	
60	Computer Vision Based Classification on Commercial Videos. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2017</b> , 105-135	0.4	
59	SVM-based wavelet selection for fault diagnosis of monoblock centrifugal pump. <i>International Journal of Data Analysis Techniques and Strategies</i> , <b>2016</b> , 8, 357	0.5	0
58	Vibration based Health Assessment of Bearings using Random Forest Classifier. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,	1	5
57	Fault Diagnosis of Bearings using Vibration Signals and Wavelets. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,	1	2
56	Fault Diagnostics of a Gearbox via Acoustic Signal using Wavelet Features, J48 Decision Tree and Random Tree Classifier. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,	1	2
55	Acoustic Signal Based Condition Monitoring of Gearbox using Wavelets and Decision Tree Classifier. <i>Indian Journal of Science and Technology</i> , <b>2016</b> , 9,	1	3
54	Exploiting BICC Features for Classification of Advertisement Videos Using RIDOR Algorithm <b>2016</b> ,		2
53	Brake fault diagnosis using Clonal Selection Classification Algorithm (CSCA) [A statistical learning approach <b>2015</b> , 18, 14-23		16
52	Fault diagnosis of automobile hydraulic brake system using statistical features and support vector machines. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 52-53, 436-446	7.8	109
51	Fuzzy classifier with automatic rule generation for fault diagnosis of hydraulic brake system using statistical features. <i>International Journal of Fuzzy Computation and Modelling</i> , <b>2015</b> , 1, 333	0.8	1
50	Machine Learning Approach to the Prediction of Surface Roughness Using Statistical Features of Vibration Signal Acquired in Turning. <i>Procedia Computer Science</i> , <b>2015</b> , 50, 282-288	1.6	26
49	A comparative study of naive Bayes classifier and Bayes net classifier for fault diagnosis of roller bearing using sound signal. <i>International Journal of Decision Support Systems</i> , <b>2015</b> , 1, 115	0.8	11
48	Fault diagnosis of helical gear box using variational mode decomposition and J48 algorithm. <i>International Journal of Decision Support Systems</i> , <b>2015</b> , 1, 391	0.8	
47	Fault diagnosis of helical gear box using naive Bayes and Bayes net. <i>International Journal of Decision Support Systems</i> , <b>2015</b> , 1, 4	0.8	7
46	A comparative study of Naïve Bayes classifier and Bayes Net classifier for fault diagnosis of automobile hydraulic brake system. <i>International Journal of Decision Support Systems</i> , <b>2015</b> , 1, 247	0.8	0
45	Determination of minimum sample size for fault diagnosis of automobile hydraulic brake system using power analysis <b>2015</b> , 18, 59-69		8

44	Tool condition monitoring using K-star algorithm. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 2638-2643	7.8	57
43	Comparison of dimensionality reduction techniques for the fault diagnosis of mono block centrifugal pump using vibration signals <b>2014</b> , 17, 30-38		32
42	Misfire detection in an IC engine using vibration signal and decision tree algorithms. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2014</b> , 50, 370-380	4.6	58
41	Fault diagnosis of monoblock centrifugal pump using SVM <b>2014</b> , 17, 152-157		45
40	Vibration Based Fault Diagnosis Study of an Automobile Brake System Using K Star (K*) Algorithm □ A Statistical Approach. <i>Recent Patents on Signal Processing</i> , <b>2014</b> , 4, 44-56		9
39	Fault diagnosis of bearings through vibration signal using Bayes classifiers. <i>International Journal of Computer Aided Engineering and Technology</i> , <b>2014</b> , 6, 14	0.5	14
38	Fault Diagnosis of Single Point Cutting Tool through Vibration Signal Using Decision Tree Algorithm <b>2014</b> , 5, 1434-1441		24
37	Comparative study of decision tree classifier and best first tree classifier for fault diagnosis of automobile hydraulic brake system using statistical features. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 3247-3260	4.6	36
36	Rough set based rule learning and fuzzy classification of wavelet features for fault diagnosis of monoblock centrifugal pump. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 3057-3063	4.6	51
35	Exploiting sound signals for fault diagnosis of bearings using decision tree. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 1250-1256	4.6	82
34	SELECTION OF DISCRETE WAVELETS FOR FAULT DIAGNOSIS OF MONOBLOCK CENTRIFUGAL PUMP USING THE J48 ALGORITHM. <i>Applied Artificial Intelligence</i> , <b>2013</b> , 27, 1-19	2.3	19
33	Feature extraction using wavelets and classification through decision tree algorithm for fault diagnosis of mono-block centrifugal pump. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 353-359	4.6	82
32	Characterization of Metal Phthalocyanine Catalysts Using Field Desorption Mass Spectrometry. <i>Petroleum Science and Technology</i> , <b>2012</b> , 30, 278-289	1.4	1
31	A comparative study of Naïve Bayes classifier and Bayes net classifier for fault diagnosis of monoblock centrifugal pump using wavelet analysis. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 2023-2029	7.5	123
30	Automatic rule learning using roughset for fuzzy classifier in fault categorization of mono-block centrifugal pump. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 196-203	7.5	21
29	Soft computing approach to fault diagnosis of centrifugal pump. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 1574-1581	7.5	29
28	Application of standalone system and hybrid system for fault diagnosis of centrifugal pump using time domain signals and statistical features. <i>International Journal of Data Mining, Modelling and Management</i> , <b>2012</b> , 4, 74	0.2	
27	Determination of sample size using power analysis and optimum bin size of histogram features. <i>International Journal of Data Analysis Techniques and Strategies</i> , <b>2011</b> , 3, 21	0.5	1

26	Decision support system using artificial immune recognition system for fault classification of centrifugal pump. <i>International Journal of Data Analysis Techniques and Strategies</i> , <b>2011</b> , 3, 66	0.5	10
25	Effect of SVM kernel functions on classification of vibration signals of a single point cutting tool. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 15202-15207	7.8	50
24	Multi component fault diagnosis of rotational mechanical system based on decision tree and support vector machine. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 3819-3826	7.8	123
23	Machine learning approach for automated visual inspection of machine components. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 3260-3266	7.8	63
22	Effect of number of features on classification of roller bearing faults using SVM and PSVM. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 4088-4096	7.8	92
21	A method for calculation of optimum data size and bin size of histogram features in fault diagnosis of mono-block centrifugal pump. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 7708-7717	7.8	4
20	Fault diagnosis of roller bearing using fuzzy classifier and histogram features with focus on automatic rule learning. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 4901-4907	7.8	43
19	Wavelet decomposition and support vector machine for fault diagnosis of monoblock centrifugal pump. <i>International Journal of Data Analysis Techniques and Strategies</i> , <b>2011</b> , 3, 159	0.5	12
18	Use of histogram features for decision tree-based fault diagnosis of monoblock centrifugal pump. <i>International Journal of Granular Computing, Rough Sets and Intelligent Systems</i> , <b>2011</b> , 2, 23		8
17	Application of Support Vector Machine (SVM) and Proximal Support Vector Machine (PSVM) for fault classification of monoblock centrifugal pump. <i>International Journal of Data Analysis Techniques and Strategies</i> , <b>2010</b> , 2, 38	0.5	29
16	Precise wavelet for current signature in 3? IM. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 450-455	7.8	37
15	Studies on Bayes classifier for condition monitoring of single point carbide tipped tool based on statistical and histogram features. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 2059-2065	7.8	52
14	Comparison of decision tree-fuzzy and rough set-fuzzy methods for fault categorization of mono-block centrifugal pump. <i>Mechanical Systems and Signal Processing</i> , <b>2010</b> , 24, 1887-1906	7.8	57
13	Misfire identification in a four-stroke four-cylinder petrol engine using decision tree. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 2150-2160	7.8	25
12	Vibration based fault diagnosis of monoblock centrifugal pump using decision tree. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 4040-4049	7.8	120
11	Minimum sample size determination of vibration signals in machine learning approach to fault diagnosis using power analysis. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 8650-8658	7.8	14
10	Safety analysis on a vibrating prismatic body: A data-mining approach. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 6605-6612	7.8	2
9	Fault diagnostics of roller bearing using kernel based neighborhood score multi-class support vector machine. <i>Expert Systems With Applications</i> , <b>2008</b> , 34, 3090-3098	7.8	77

8	Decision tree: A very useful tool in analysing flow-induced vibration data. <i>Mechanical Systems and Signal Processing</i> , <b>2008</b> , 22, 202-216	7.8	7
7	Feature selection using Decision Tree and classification through Proximal Support Vector Machine for fault diagnostics of roller bearing. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 930-942	7.8	268
6	Automatic rule learning using decision tree for fuzzy classifier in fault diagnosis of roller bearing. <i>Mechanical Systems and Signal Processing</i> , <b>2007</b> , 21, 2237-2247	7.8	109
5	Convolutional Neural Network based Automatic Detection of Visible Faults in a Photovoltaic Module. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-16	1.6	4
4	A combined approach of convolutional neural networks and machine learning for visual fault classification in photovoltaic modules. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 1748006X2110203	0.8	1
3	A Bayes learning approach for monitoring the condition of suspension system using vibration signals. <i>IOP Conference Series: Materials Science and Engineering</i> , 1012, 012029	0.4	1
2	Prediction of air compressor condition using vibration signals and machine learning algorithms. <i>JVC/Journal of Vibration and Control</i> , 107754632110623	2	
1	Visual fault detection in photovoltaic modules using decision tree algorithms with deep learning features. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-17	1.6	0