RenÃ©-Vinicio SÃ¡nchez

List of Publications by Year
in descending order

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Version: 2024-02-01

75 papers	3,505 citations	236833 25 h-index	189801 50 g-index
76 all docs	76 docs citations	76 times ranked	2821 citing authors

#	Article	IF	Citations
1	Gear and bearing fault classification under different load and speed by using PoincarÃ© plot features and SVM. Journal of Intelligent Manufacturing, 2022, 33, 1031-1055.	4.4	22
2	AutoML for Feature Selection and Model Tuning Applied to Fault Severity Diagnosis in Spur Gearboxes. Mathematical and Computational Applications, 2022, 27, 6.	0.7	13
3	Deep Ensemble-Based Classifier for Transfer Learning in Rotating Machinery Fault Diagnosis. IEEE Access, 2022, 10, 29778-29787.	2.6	5
4	A hybrid prototype selection-based deep learning approach for anomaly detection in industrial machines. Expert Systems With Applications, 2022, 204, 117528.	4.4	10
5	Fusing convolutional generative adversarial encoders for 3D printer fault detection with only normal condition signals. Mechanical Systems and Signal Processing, 2021, 147, 107108.	4.4	33
6	From fault detection to one-class severity discrimination of 3D printers with one-class support vector machine. ISA Transactions, 2021, 110, 357-367.	3.1	15
7	One-Shot Fault Diagnosis of Three-Dimensional Printers Through Improved Feature Space Learning. IEEE Transactions on Industrial Electronics, 2021, 68, 8768-8776.	5.2	15
8	Using the Kullback-Leibler Divergence and Kolmogorov-Smirnov Test to Select Input Sizes to the Fault Diagnosis Problem Based on a CNN Model. Learning and Nonlinear Models, 2021, 18, 16-26.	0.2	0
9	A Method for the Estimation of the Constant Load Torque by Using the Steady-State Electrical Torque Signal. , 2021, , .		0
10	Data-Driven Gearbox Fault Severity Diagnosis Based on Concept Drift. , 2021, , .		0
11	Finite-time and fixed-time impulsive synchronization of chaotic systems. Journal of the Franklin Institute, 2020, 357, 11545-11557.	1.9	27
12	Bayesian approach and time series dimensionality reduction to LSTM-based model-building for fault diagnosis of a reciprocating compressor. Neurocomputing, 2020, 380, 51-66.	3.5	90
13	Evaluation of Time and Frequency Condition Indicators from Vibration Signals for Crack Detection in Railway Axles. Applied Sciences (Switzerland), 2020, 10, 4367.	1.3	7
14	SOA based smartphone system for the fault detection in rotating machines. , 2020, , .		2
15	Exploiting Generative Adversarial Networks as an Oversampling Method for Fault Diagnosis of an Industrial Robotic Manipulator. Applied Sciences (Switzerland), 2020, 10, 7712.	1.3	13
16	Knowledge extraction from deep convolutional neural networks applied to cyclo-stationary time-series classification. Information Sciences, 2020, 524, 1-14.	4.0	9
17	Reciprocating Compressor Multi-Fault Classification Using Symbolic Dynamics and Complex Correlation Measure. Applied Sciences (Switzerland), 2020, 10, 2512.	1.3	16
18	Fault Diagnosis of Wind Turbine Gearbox Based on the Optimized LSTM Neural Network with Cosine Loss. Sensors, 2020, 20, 2339.	2.1	59

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19	Fast feature selection based on cluster validity index applied on data-driven bearing fault detection. , 2020, , .		3
20	Influence of Accelerometer Position on Gearbox Fault Severity Classification through Evaluation of Deep Learning Models. , 2019, , .		0
21	Accelerometer Placement Comparison for Crack Detection in Railway Axles Using Vibration Signals and Machine Learning. , 2019, , .		5
22	Vibration signal analysis using symbolic dynamics for gearbox fault diagnosis. International Journal of Advanced Manufacturing Technology, 2019, 104, 2195-2214.	1.5	23
23	Multilayer Gated Recurrent Unit for Spur Gear Fault Diagnosis. , 2019, , .		1
24	Finite-time leaderless consensus control of a group of Euler-Lagrangian systems with backlash nonlinearities. Journal of the Franklin Institute, 2019, 356, 9286-9301.	1.9	11
25	Deep Learning-Based Gear Pitting Severity Assessment Using Acoustic Emission, Vibration and Currents Signals. , 2019, , .		9
26	Generative Adversarial Networks Selection Approach for Extremely Imbalanced Fault Diagnosis of Reciprocating Machinery. IEEE Access, 2019, 7, 70643-70653.	2.6	48
27	Spur Gear Fault Diagnosis Using a Multilayer Gated Recurrent Unit Approach With Vibration Signal. IEEE Access, 2019, 7, 56880-56889.	2.6	24
28	Using a Support Vector Machine Based Decision Stage to Improve the Fault Diagnosis on Gearboxes. Computational Intelligence and Neuroscience, 2019, 2019, 1-13.	1.1	19
29	A hybrid heuristic algorithm for evolving models in simultaneous scenarios of classification and clustering. Knowledge and Information Systems, 2019, 61, 755-798.	2.1	5
30	A LSTM Neural Network Approach using Vibration Signals for Classifying Faults in a Gearbox. , 2019, , .		3
31	A Systematic Review of Fuzzy Formalisms for Bearing Fault Diagnosis. IEEE Transactions on Fuzzy Systems, 2019, 27, 1362-1382.	6.5	86
32	An adaptive genomic difference based genetic algorithm and its application to memetic continuous optimization. Intelligent Data Analysis, 2018, 22, 363-382.	0.4	2
33	A fuzzy transition based approach for fault severity prediction in helical gearboxes. Fuzzy Sets and Systems, 2018, 337, 52-73.	1.6	26
34	A review on data-driven fault severity assessment in rolling bearings. Mechanical Systems and Signal Processing, 2018, 99, 169-196.	4.4	493
35	Convolutional Neural Networks Using Fourier Transform Spectrogram to Classify the Severity of Gear Tooth Breakage. , 2018, , .		5
36	Gearbox Fault Diagnosis Based on a Novel Hybrid Feature Reduction Method. IEEE Access, 2018, 6, 75813-75823.	2.6	8

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37	Gear Crack Level Classification by Using KNN and Time-Domain Features from Acoustic Emission Signals Under Different Motor Speeds and Loads. , 2018, , .		5
38	GKFP: A New Fuzzy Clustering Method Applied to Bearings Diagnosis. , 2018, , .		1
39	A comparative feature analysis for gear pitting level classification by using acoustic emission, vibration and current signals. IFAC-PapersOnLine, 2018, 51, 346-352.	0.5	19
40	A semi-supervised approach based on evolving clusters for discovering unknown abnormal condition patterns in gearboxes. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3581-3593.	0.8	8
41	Feature engineering based on ANOVA, cluster validity assessment and KNN for fault diagnosis in bearings. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3451-3462.	0.8	15
42	Gearbox fault classification using dictionary sparse based representations of vibration signals. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3605-3618.	0.8	9
43	Feature ranking for multi-fault diagnosis of rotating machinery by using random forest and KNN. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3463-3473.	0.8	75
44	A comparison of fuzzy clustering algorithms for bearing fault diagnosis. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3565-3580.	0.8	74
45	Echo state network and variational autoencoder for efficient one-class learning on dynamical systems. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3799-3809.	0.8	12
46	Automatic feature extraction of time-series applied to fault severity assessment of helical gearbox in stationary and non-stationary speed operation. Applied Soft Computing Journal, 2017, 58, 53-64.	4.1	59
47	A Bayesian approach to consequent parameter estimation in probabilistic fuzzy systems and its application to bearing fault classification. Knowledge-Based Systems, 2017, 129, 39-60.	4.0	39
48	SOA Based Integrated Software to Develop Fault Diagnosis Models Using Machine Learning in Rotating Machinery. , 2017, , .		3
49	Deep neural networks-based rolling bearing fault diagnosis. Microelectronics Reliability, 2017, 75, 327-333.	0.9	187
50	Attribute clustering using rough set theory for feature selection in fault severity classification of rotating machinery. Expert Systems With Applications, 2017, 71, 69-86.	4.4	92
51	Some Preliminary Results on the Comparison of FCM, GK, FCMFP and FN-DBSCAN for Bearing Fault Diagnosis. , 2017, , .		6
52	Framework for Discovering Unknown Abnormal Condition Patterns in Gearboxes Using a Semi-supervised Approach. , 2017, , .		0
53	PoincarÃ© plot features from vibration signal for gearbox fault diagnosis. , 2017, , .		3
54	A Dictionary Sparse Based Representation of Vibration Signals for Gearbox Fault Detection. , 2017, , .		0

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55	Multi-fault Diagnosis of Rotating Machinery by Using Feature Ranking Methods and SVM-based Classifiers. , 2017, , .		14
56	ANOVA and Cluster Distance Based Contributions for Feature Empirical Analysis to Fault Diagnosis in Rotating Machinery. , 2017, , .		5
57	Vibration-based gearbox fault diagnosis using deep neural networks. Journal of Vibroengineering, 2017, 19, 2475-2496.	0.5	18
58	Fault Diagnosis for Rotating Machinery Using Vibration Measurement Deep Statistical Feature Learning. Sensors, 2016, 16, 895.	2.1	189
59	A methodological framework using statistical tests for comparing machine learning based models applied to fault diagnosis in rotating machinery. , 2016, , .		1
60	Rolling bearing fault diagnosis based on Deep Boltzmann machines. , 2016, , .		12
61	Fuzzy determination of informative frequency band for bearing fault detection. Journal of Intelligent and Fuzzy Systems, 2016, 30, 3513-3525.	0.8	24
62	Rolling element bearing defect detection using the generalized synchrosqueezing transform guided by timeâ€“frequency ridge enhancement. ISA Transactions, 2016, 60, 274-284.	3.1	120
63	Clustering algorithm using rough set theory for unsupervised feature selection. , 2016, , .		1
64	Hierarchical feature selection based on relative dependency for gear fault diagnosis. Applied Intelligence, 2016, 44, 687-703.	3.3	56
65	Extracting repetitive transients for rotating machinery diagnosis using multiscale clustered grey infogram. Mechanical Systems and Signal Processing, 2016, 76-77, 157-173.	4.4	87
66	Gearbox fault diagnosis based on deep random forest fusion of acoustic and vibratory signals. Mechanical Systems and Signal Processing, 2016, 76-77, 283-293.	4.4	339
67	Observer-biased bearing condition monitoring: From fault detection to multi-fault classification. Engineering Applications of Artificial Intelligence, 2016, 50, 287-301.	4.3	47
68	A statistical comparison of neuroclassifiers and feature selection methods for gearbox fault diagnosis under realistic conditions. Neurocomputing, 2016, 194, 192-206.	3.5	54
69	Fault diagnosis in spur gears based on genetic algorithm and random forest. Mechanical Systems and Signal Processing, 2016, 70-71, 87-103.	4.4	248
70	Introduction to the special issue on the VIII Latin-American Congress on Mechanical Engineering. Frontiers of Mechanical Engineering, 2015, 10, 219-220.	2.5	0
71	Multi-Stage Feature Selection by Using Genetic Algorithms for Fault Diagnosis in Gearboxes Based on Vibration Signal. Sensors, 2015, 15, 23903-23926.	2.1	76
72	Gearbox Fault Identification and Classification with Convolutional Neural Networks. Shock and Vibration, 2015, 2015, 1-10.	0.3	208

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73	Fault diagnosis of spur gearbox based on random forest and wavelet packet decomposition. Frontiers of Mechanical Engineering, 2015, 10, 277-286.	2.5	46
74	Multimodal deep support vector classification with homologous features and its application to gearbox fault diagnosis. Neurocomputing, 2015, 168, 119-127.	3.5	245
75	Fault Diagnosis for Controlled Continuous Systems from a Hybrid Approach: A Case Study. , 2015, , .		1