

Shaohui Zhang

List of Publications by Year in descending order

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68
papers

4,430
citations

136885

32
h-index

110317

64
g-index

68
all docs

68
docs citations

68
times ranked

3231
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel self-training semi-supervised deep learning approach for machinery fault diagnosis. International Journal of Production Research, 2023, 61, 8238-8251.	4.9	36
2	Incremental Novelty Identification From Initially One-Class Learning to Unknown Abnormality Classification. IEEE Transactions on Industrial Electronics, 2022, 69, 7394-7404.	5.2	18
3	A One-Class Generative Adversarial Detection Framework for Multifunctional Fault Diagnoses. IEEE Transactions on Industrial Electronics, 2022, 69, 8411-8419.	5.2	18
4	Dual-Attention Generative Adversarial Networks for Fault Diagnosis Under the Class-Imbalanced Conditions. IEEE Sensors Journal, 2022, 22, 1474-1485.	2.4	32
5	Fully interpretable neural network for locating resonance frequency bands for machine condition monitoring. Mechanical Systems and Signal Processing, 2022, 168, 108673.	4.4	70
6	Improved adversarial learning for fault feature generation of wind turbine gearbox. Renewable Energy, 2022, 185, 255-266.	4.3	20
7	A Novel Generative Method for Machine Fault Diagnosis. Journal of Sensors, 2022, 2022, 1-11.	0.6	2
8	A Stochastic Learning Algorithm for Machine Fault Diagnosis. Shock and Vibration, 2022, 2022, 1-9.	0.3	0
9	Self-Adaptation Graph Attention Network via Meta-Learning for Machinery Fault Diagnosis With Few Labeled Data. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	29
10	From Anomaly Detection to Novel Fault Discrimination for Wind Turbine Gearboxes With a Sparse Isolation Encoding Forest. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	7
11	Pre-classified reservoir computing for the fault diagnosis of 3D printers. Mechanical Systems and Signal Processing, 2021, 146, 106961.	4.4	11
12	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
13	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
14	A novel doublet extreme learning machines for Delta 3D printer fault diagnosis using attitude sensor. ISA Transactions, 2021, 109, 327-339.	3.1	5
15	Fault Diagnosis for Wind Turbine Gearboxes by Using Deep Enhanced Fusion Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	23
16	Theoretical Investigations on Kurtosis and Entropy and Their Improvements for System Health Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	11
17	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
18	Reducing False-Positives in Lung Nodules Detection Using Balanced Datasets. Frontiers in Public Health, 2021, 9, 671070.	1.3	8

#	ARTICLE	IF	CITATIONS
19	A manufacturing quality prediction model based on AdaBoost-LSTM with rough knowledge. Computers and Industrial Engineering, 2021, 155, 107227.	3.4	36
20	Fault diagnosis of industrial robot reducer by an extreme learning machine with a level-based learning swarm optimizer. Advances in Mechanical Engineering, 2021, 13, 168781402110195.	0.8	7
21	Swarm Robot Exploration Strategy for Path Formation Tasks Inspired by Physarum polycephalum. Complexity, 2021, 2021, 1-17.	0.9	2
22	Machinery Fault Detection Using Autoencoder and Online Sequential Extreme Learning Machine. , 2021, , .		2
23	Error Fusion of Hybrid Neural Networks for Mechanical Condition Dynamic Prediction. Sensors, 2021, 21, 4043.	2.1	5
24	Mechanical fault diagnosis by using dynamic transfer adversarial learning. Measurement Science and Technology, 2021, 32, 104005.	1.4	6
25	Extreme random forest method for machine fault classification. Measurement Science and Technology, 2021, 32, 114006.	1.4	8
26	Enhanced generative adversarial network for extremely imbalanced fault diagnosis of rotating machine. Measurement: Journal of the International Measurement Confederation, 2021, 180, 109467.	2.5	47
27	Few Shot Learning for Novel Fault Diagnosis with a Improved Prototypical Network. , 2021, , .		1
28	A Novel Sparse Echo Autoencoder Network for Data-Driven Fault Diagnosis of Delta 3-D Printers. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 683-692.	2.4	60
29	Evolving Deep Echo State Networks for Intelligent Fault Diagnosis. IEEE Transactions on Industrial Informatics, 2020, 16, 4928-4937.	7.2	131
30	Manifold Sparse Auto-Encoder for Machine Fault Diagnosis. IEEE Sensors Journal, 2020, 20, 8328-8335.	2.4	22
31	Deep Hybrid State Network With Feature Reinforcement for Intelligent Fault Diagnosis of Delta 3-D Printers. IEEE Transactions on Industrial Informatics, 2020, 16, 779-789.	7.2	32
32	Toward target search approach of swarm robotics in limited communication environment based on robot chains with elimination mechanism. International Journal of Advanced Robotic Systems, 2020, 17, 172988142091995.	1.3	7
33	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
34	A systematic review of deep transfer learning for machinery fault diagnosis. Neurocomputing, 2020, 407, 121-135.	3.5	253
35	Generative Transfer Learning for Intelligent Fault Diagnosis of the Wind Turbine Gearbox. Sensors, 2020, 20, 1361.	2.1	25
36	A Deep Regression Model with Low-Dimensional Feature Extraction for Multi-Parameter Manufacturing Quality Prediction. Applied Sciences (Switzerland), 2020, 10, 2522.	1.3	6

#	ARTICLE	IF	CITATIONS
37	State-of-charge estimation of lithium-ion batteries using LSTM and UKF. Energy, 2020, 201, 117664.	4.5	204
38	Transmission Condition Monitoring of 3D Printers Based on the Echo State Network. Applied Sciences (Switzerland), 2019, 9, 3058.	1.3	7
39	Deep Learning With Emerging New Labels for Fault Diagnosis. IEEE Access, 2019, 7, 6279-6287.	2.6	12
40	Dynamic condition monitoring for 3D printers by using error fusion of multiple sparse auto-encoders. Computers in Industry, 2019, 105, 164-176.	5.7	43
41	Flexible Kurtogram for Extracting Repetitive Transients for Prognostics and Health Management of Rotating Components. IEEE Access, 2019, 7, 55631-55639.	2.6	8
42	Deep Fuzzy Echo State Networks for Machinery Fault Diagnosis. IEEE Transactions on Fuzzy Systems, 2019, , 1-1.	6.5	47
43	Fault Diagnosis of Delta 3D Printers Using Transfer Support Vector Machine With Attitude Signals. IEEE Access, 2019, 7, 40359-40368.	2.6	27
44	Rolling Bearing Incipient Fault Detection Based on a Multi-Resolution Singular Value Decomposition. Applied Sciences (Switzerland), 2019, 9, 4465.	1.3	8
45	Deep Decoupling Convolutional Neural Network for Intelligent Compound Fault Diagnosis. IEEE Access, 2019, 7, 1848-1858.	2.6	150
46	Bearing performance degradation assessment using long short-term memory recurrent network. Computers in Industry, 2019, 106, 14-29.	5.7	233
47	A Systematic Review of Fuzzy Formalisms for Bearing Fault Diagnosis. IEEE Transactions on Fuzzy Systems, 2019, 27, 1362-1382.	6.5	86
48	A comparison of dimension reduction techniques for support vector machine modeling of multi-parameter manufacturing quality prediction. Journal of Intelligent Manufacturing, 2019, 30, 2245-2256.	4.4	82
49	Improved multi-variable grey forecasting model with a dynamic background-value coefficient and its application. Computers and Industrial Engineering, 2018, 118, 278-290.	3.4	133
50	A review on data-driven fault severity assessment in rolling bearings. Mechanical Systems and Signal Processing, 2018, 99, 169-196.	4.4	493
51	Practical Production Scheduling for Hot Metal Pretreatment-Steelmaking-Continuous Casting Process Involving Preventive Maintenance Consideration. IEEE Access, 2018, 6, 57017-57029.	2.6	10
52	Improving forecasting accuracy of daily enterprise electricity consumption using a random forest based on ensemble empirical mode decomposition. Energy, 2018, 165, 1220-1227.	4.5	120
53	Intelligent Fault Diagnosis of Delta 3D Printers Using Attitude Sensors Based on Support Vector Machines. Sensors, 2018, 18, 1298.	2.1	37
54	A comparison of fuzzy clustering algorithms for bearing fault diagnosis. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3565-3580.	0.8	74

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55	Automatic feature extraction of time-series applied to fault severity assessment of helical gearbox in stationary and non-stationary speed operation. <i>Applied Soft Computing Journal</i> , 2017, 58, 53-64.	4.1	59
56	A Bayesian approach to consequent parameter estimation in probabilistic fuzzy systems and its application to bearing fault classification. <i>Knowledge-Based Systems</i> , 2017, 129, 39-60.	4.0	39
57	Fault Diagnosis for Rotating Machinery Using Vibration Measurement Deep Statistical Feature Learning. <i>Sensors</i> , 2016, 16, 895.	2.1	189
58	Rolling element bearing defect detection using the generalized synchrosqueezing transform guided by time-frequency ridge enhancement. <i>ISA Transactions</i> , 2016, 60, 274-284.	3.1	120
59	Hierarchical feature selection based on relative dependency for gear fault diagnosis. <i>Applied Intelligence</i> , 2016, 44, 687-703.	3.3	56
60	Gearbox fault diagnosis based on deep random forest fusion of acoustic and vibratory signals. <i>Mechanical Systems and Signal Processing</i> , 2016, 76-77, 283-293.	4.4	339
61	Feature Denoising and Nearest-Farthest Distance Preserving Projection for Machine Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 393-404.	7.2	96
62	Criterion fusion for spectral segmentation and its application to optimal demodulation of bearing vibration signals. <i>Mechanical Systems and Signal Processing</i> , 2015, 64-65, 132-148.	4.4	95
63	Multimodal deep support vector classification with homologous features and its application to gearbox fault diagnosis. <i>Neurocomputing</i> , 2015, 168, 119-127.	3.5	245
64	Bearing Condition Recognition and Degradation Assessment under Varying Running Conditions Using NPE and SOM. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-10.	0.6	15
65	Semisupervised Distance-Preserving Self-Organizing Map for Machine-Defect Detection and Classification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 869-879.	2.4	92
66	Variable Nearest Neighbor Locally Linear Embedding and Applications in Bearing Condition Recognition. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2013, 49, 81.	0.7	6
67	Continuous-scale mathematical morphology-based optimal scale band demodulation of impulsive feature for bearing defect diagnosis. <i>Journal of Sound and Vibration</i> , 2012, 331, 5864-5879.	2.1	78
68	Time-frequency signal analysis for gearbox fault diagnosis using a generalized synchrosqueezing transform. <i>Mechanical Systems and Signal Processing</i> , 2012, 26, 205-217.	4.4	211