

Jinglong Chen

List of Publications by Year in descending order

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86
papers

3,358
citations

201674

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docs citations

86
times ranked

1962
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelet transform based on inner product in fault diagnosis of rotating machinery: A review. <i>Mechanical Systems and Signal Processing</i> , 2016, 70-71, 1-35.	8.0	379
2	Generator bearing fault diagnosis for wind turbine via empirical wavelet transform using measured vibration signals. <i>Renewable Energy</i> , 2016, 89, 80-92.	8.9	305
3	Gated recurrent unit based recurrent neural network for remaining useful life prediction of nonlinear deterioration process. <i>Reliability Engineering and System Safety</i> , 2019, 185, 372-382.	8.9	281
4	Intelligent fault diagnosis of machines with small & imbalanced data: A state-of-the-art review and possible extensions. <i>ISA Transactions</i> , 2022, 119, 152-171.	5.7	214
5	LiftingNet: A Novel Deep Learning Network With Layerwise Feature Learning From Noisy Mechanical Data for Fault Classification. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 4973-4982.	7.9	204
6	Mono-component feature extraction for mechanical fault diagnosis using modified empirical wavelet transform via data-driven adaptive Fourier spectrum segment. <i>Mechanical Systems and Signal Processing</i> , 2016, 72-73, 160-183.	8.0	127
7	Semi-supervised meta-learning networks with squeeze-and-excitation attention for few-shot fault diagnosis. <i>ISA Transactions</i> , 2022, 120, 383-401.	5.7	92
8	Intelligent fault diagnosis of Wind Turbines via a Deep Learning Network Using Parallel Convolution Layers with Multi-Scale Kernels. <i>Renewable Energy</i> , 2020, 153, 205-213.	8.9	87
9	Meta-learning as a promising approach for few-shot cross-domain fault diagnosis: Algorithms, applications, and prospects. <i>Knowledge-Based Systems</i> , 2022, 235, 107646.	7.1	85
10	A Small Sample Focused Intelligent Fault Diagnosis Scheme of Machines via Multimodules Learning With Gradient Penalized Generative Adversarial Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 10130-10141.	7.9	71
11	Multifractal entropy based adaptive multiwavelet construction and its application for mechanical compound-fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2016, 76-77, 742-758.	8.0	64
12	A Compact Convolutional Neural Network Augmented with Multiscale Feature Extraction of Acquired Monitoring Data for Mechanical Intelligent Fault Diagnosis. <i>Journal of Manufacturing Systems</i> , 2020, 55, 273-284.	13.9	64
13	A Novel Deep Learning Network via Multiscale Inner Product With Locally Connected Feature Extraction for Intelligent Fault Detection. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 5119-5128.	11.3	63
14	Attention mechanism in intelligent fault diagnosis of machinery: A review of technique and application. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 199, 111594.	5.0	62
15	Generative adversarial network in mechanical fault diagnosis under small sample: A systematic review on applications and future perspectives. <i>ISA Transactions</i> , 2022, 128, 1-10.	5.7	56
16	Similarity-based meta-learning network with adversarial domain adaptation for cross-domain fault identification. <i>Knowledge-Based Systems</i> , 2021, 217, 106829.	7.1	54
17	Intelligent fault identification for industrial automation system via multi-scale convolutional generative adversarial network with partially labeled samples. <i>ISA Transactions</i> , 2020, 101, 379-389.	5.7	47
18	End to end multi-task learning with attention for multi-objective fault diagnosis under small sample. <i>Journal of Manufacturing Systems</i> , 2022, 62, 301-316.	13.9	47

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19	Deep Feature Generating Network: A New Method for Intelligent Fault Detection of Mechanical Systems Under Class Imbalance. IEEE Transactions on Industrial Informatics, 2021, 17, 6282-6293.	11.3	43
20	Subspace Network with Shared Representation learning for intelligent fault diagnosis of machine under speed transient conditions with few samples. ISA Transactions, 2022, 128, 531-544.	5.7	42
21	Intelligent fault diagnosis of mechanical equipment under varying working condition via iterative matching network augmented with selective Signal reuse strategy. Journal of Manufacturing Systems, 2020, 57, 400-415.	13.9	41
22	A multi-head attention network with adaptive meta-transfer learning for RUL prediction of rocket engines. Reliability Engineering and System Safety, 2022, 225, 108610.	8.9	40
23	Degradation feature extraction using multi-source monitoring data via logarithmic normal distribution based variational auto-encoder. Computers in Industry, 2019, 109, 72-82.	9.9	36
24	Prior Knowledge-Augmented Self-Supervised Feature Learning for Few-Shot Intelligent Fault Diagnosis of Machines. IEEE Transactions on Industrial Electronics, 2022, 69, 10573-10584.	7.9	36
25	A Deep Learning Network via Shunt-Wound Restricted Boltzmann Machines Using Raw Data for Fault Detection. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4852-4862.	4.7	32
26	Hybrid attribute conditional adversarial denoising autoencoder for zero-shot classification of mechanical intelligent fault diagnosis. Applied Soft Computing Journal, 2020, 95, 106577.	7.2	32
27	Adaptive redundant multiwavelet denoising with improved neighboring coefficients for gearbox fault detection. Mechanical Systems and Signal Processing, 2013, 38, 549-568.	8.0	29
28	Contrastive-weighted self-supervised model for long-tailed data classification with vision transformer augmented. Mechanical Systems and Signal Processing, 2022, 177, 109174.	8.0	29
29	Construction of adaptive redundant multiwavelet packet and its application to compound faults detection of rotating machinery. Science China Technological Sciences, 2012, 55, 2083-2090.	4.0	28
30	Cross-domain learning in rotating machinery fault diagnosis under various operating conditions based on parameter transfer. Measurement Science and Technology, 2020, 31, 085104.	2.6	27
31	Planetary gearbox condition monitoring of ship-based satellite communication antennas using ensemble multiwavelet analysis method. Mechanical Systems and Signal Processing, 2015, 54-55, 277-292.	8.0	26
32	LOGGAN: latent optimized stable GAN for intelligent fault diagnosis with limited data in rotating machinery. Measurement Science and Technology, 2021, 32, 045101.	2.6	26
33	Heterogeneous bi-directional recurrent neural network combining fusion health indicator for predictive analytics of rotating machinery. ISA Transactions, 2022, 122, 409-423.	5.7	24
34	Data-driven mono-component feature identification via modified nonlocal means and MEWT for mechanical drivetrain fault diagnosis. Mechanical Systems and Signal Processing, 2016, 80, 533-552.	8.0	23
35	Differentiable neural architecture search augmented with pruning and multi-objective optimization for time-efficient intelligent fault diagnosis of machinery. Mechanical Systems and Signal Processing, 2021, 158, 107773.	8.0	23
36	Intelligent fault diagnosis under small sample size conditions via Bidirectional InfoMax GAN with unsupervised representation learning. Knowledge-Based Systems, 2021, 232, 107488.	7.1	23

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37	Efficient temporal flow Transformer accompanied with multi-head probsparse self-attention mechanism for remaining useful life prognostics. Reliability Engineering and System Safety, 2022, 226, 108701.	8.9	22
38	SASLN: Signals Augmented Self-Taught Learning Networks for Mechanical Fault Diagnosis Under Small Sample Condition. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	20
39	Make the Rocket Intelligent at IoT Edge: Stepwise GAN for Anomaly Detection of LRE With Multisource Fusion. IEEE Internet of Things Journal, 2022, 9, 3135-3149.	8.7	20
40	Triplet metric driven multi-head GNN augmented with decoupling adversarial learning for intelligent fault diagnosis of machines under varying working condition. Journal of Manufacturing Systems, 2022, 62, 1-16.	13.9	20
41	QSCGAN: An Un-Supervised Quick Self-Attention Convolutional GAN for LRE Bearing Fault Diagnosis Under Limited Label-Lacked Data. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	4.7	20
42	A Novel Multitask Adversarial Network via Redundant Lifting for Multicomponent Intelligent Fault Detection Under Sharp Speed Variation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	19
43	Hazard Analysis for Escalator Emergency Braking System via System Safety Analysis Method Based on STAMP. Applied Sciences (Switzerland), 2019, 9, 4530.	2.5	18
44	SDA: Regularization with Cut-Flip and Mix-Normal for machinery fault diagnosis under small dataset. ISA Transactions, 2021, 111, 337-349.	5.7	18
45	A multi-module generative adversarial network augmented with adaptive decoupling strategy for intelligent fault diagnosis of machines with small sample. Knowledge-Based Systems, 2022, 239, 107980.	7.1	18
46	Multi-channel Calibrated Transformer with Shifted Windows for few-shot fault diagnosis under sharp speed variation. ISA Transactions, 2022, 131, 501-515.	5.7	18
47	Globally Localized Multisource Domain Adaptation for Cross-Domain Fault Diagnosis With Category Shift. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3082-3096.	11.3	16
48	Cross-domain intelligent bearing fault diagnosis under class imbalanced samples via transfer residual network augmented with explicit weight self-assignment strategy based on meta data. Knowledge-Based Systems, 2022, 251, 109272.	7.1	16
49	CFs-focused intelligent diagnosis scheme via alternative kernels networks with soft squeeze-and-excitation attention for fast-precise fault detection under slow & sharp speed variations. Knowledge-Based Systems, 2022, 239, 108026.	7.1	15
50	Virtual sensor-based imputed graph attention network for anomaly detection of equipment with incomplete data. Journal of Manufacturing Systems, 2022, 63, 52-63.	13.9	15
51	A visualized classification method via t-distributed stochastic neighbor embedding and various diagnostic parameters for planetary gearbox fault identification from raw mechanical data. Sensors and Actuators A: Physical, 2018, 284, 52-65.	4.1	14
52	Multiple degradation mode analysis via gated recurrent unit mode recognizer and life predictors for complex equipment. Computers in Industry, 2020, 123, 103332.	9.9	14
53	Layer Regeneration Network With Parameter Transfer and Knowledge Distillation for Intelligent Fault Diagnosis of Bearing Using Class Unbalanced Sample. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	13
54	Intelligent Fault Quantitative Identification for Industrial Internet of Things (IIoT) via a Novel Deep Dual Reinforcement Learning Model Accompanied With Insufficient Samples. IEEE Internet of Things Journal, 2022, 9, 19811-19822.	8.7	13

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55	Memory-augmented skip-connected autoencoder for unsupervised anomaly detection of rocket engines with multi-source fusion. <i>ISA Transactions</i> , 2023, 133, 53-65.	5.7	13
56	Hyper-parameter optimization based nonlinear multistate deterioration modeling for deterioration level assessment and remaining useful life prognostics. <i>Reliability Engineering and System Safety</i> , 2017, 167, 517-526.	8.9	11
57	A method for mechanical fault recognition with unseen classes via unsupervised convolutional adversarial auto-encoder. <i>Measurement Science and Technology</i> , 2021, 32, 035113.	2.6	11
58	Full Graph Autoencoder for One-Class Group Anomaly Detection of IIoT System. <i>IEEE Internet of Things Journal</i> , 2022, 9, 21886-21898.	8.7	11
59	Multi-expert Attention Network with Unsupervised Aggregation for long-tailed fault diagnosis under speed variation. <i>Knowledge-Based Systems</i> , 2022, 252, 109393.	7.1	11
60	An energy time-convexity second-order synchrosqueezing transform and application in weak fault diagnosis of rolling bearings in an aerospace engine. <i>Measurement Science and Technology</i> , 2020, 31, 125105.	2.6	9
61	A Supervised Framework for Recognition of Liquid Rocket Engine Health State Under Steady-State Process Without Fault Samples. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	9
62	Toward Small Sample Challenge in Intelligent Fault Diagnosis: Attention-Weighted Multidepth Feature Fusion Net With Signals Augmentation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-13.	4.7	9
63	Temporal convolution-based sorting feature repeat-explore network combining with multi-band information for remaining useful life estimation of equipment. <i>Knowledge-Based Systems</i> , 2022, 249, 108958.	7.1	9
64	Fault Diagnosis of Demountable Disk-Drum Aero-Engine Rotor Using Customized Multiwavelet Method. <i>Sensors</i> , 2015, 15, 26997-27020.	3.8	8
65	Intelligent Impulse Finder: A boosting multi-kernel learning network using raw data for mechanical fault identification in big data era. <i>ISA Transactions</i> , 2020, 107, 402-414.	5.7	8
66	A Dual-Guided Adaptive Decomposition Method of Fault Information and Fault Sensitivity for Multi-Component Fault Diagnosis Under Varying Speeds. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-15.	4.7	8
67	Mechanism explanation and experimental verification of a new modulation frequency characteristic in a disturbed crack rotor. <i>Nonlinear Dynamics</i> , 2019, 95, 597-616.	5.2	7
68	A New Concept of Instantaneous Whirling Speed for Cracked Rotor's Axis Orbit. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4120.	2.5	6
69	An Adversarial Learning Framework for Zero-shot Fault Recognition of Mechanical Systems. , 2019, , .		6
70	Unsupervised Multimodal Anomaly Detection With Missing Sources for Liquid Rocket Engine. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 9966-9980.	11.3	6
71	Quantitative Index and Abnormal Alarm Strategy Using Sensor-Dependent Vibration Data for Blade Crack Identification in Centrifugal Booster Fans. <i>Sensors</i> , 2016, 16, 632.	3.8	5
72	A novel integration framework for degradation-state prediction via transformer model with autonomous optimizing mechanism. <i>Journal of Manufacturing Systems</i> , 2022, 64, 288-302.	13.9	5

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73	The Next Failure Time Prediction of Escalators via Deep Neural Network with Dynamic Time Warping Preprocessing. Applied Sciences (Switzerland), 2020, 10, 5622.	2.5	4
74	Imbalanced fault identification via embedding-augmented Gaussian prototype network with meta-learning perspective. Measurement Science and Technology, 2022, 33, 055102.	2.6	4
75	A multi-branch redundant adversarial net for intelligent fault diagnosis of multiple components under drastically variable speeds. ISA Transactions, 2022, 129, 540-554.	5.7	4
76	Intelligent fault diagnosis scheme via multi-module supervised-learning network with essential features capture-regulation strategy. ISA Transactions, 2022, 129, 459-475.	5.7	4
77	Similarity Metric-Based Metalearning Network Combining Prior Metatraining Strategy for Intelligent Fault Detection Under Small Samples Prerequisite. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	4
78	Multi-Frequency Augmentation framework via information active capture for machinery intelligent fault diagnosis. ISA Transactions, 2022, 126, 460-471.	5.7	3
79	Multi-domain description method for bearing fault recognition in varying speed condition. , 2016, , .		2
80	A GKPCA-NHSMM based methodology for accurate RUL prognostics of nonlinear mechanical system with multistate deterioration. , 2016, , .		2
81	Intelligent Fault Diagnosis of Rolling Bearing via Deep-Layerwise Feature Extraction Using Deep Belief Network. , 2018, , .		2
82	An efficient method for vibration equations with time varying coefficients and nonlinearities. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842110251.	2.9	2
83	Sequence Adaptation Adversarial Network for Remaining Useful Life Prediction Using Small Data Set. , 2020, , .		2
84	A Novel Fault Identification Method Using Modified Morphological Denoising via Structuring Element Optimization for Transmission Systems of Shipborne Antennas. Journal of Marine Science and Engineering, 2022, 10, 190.	2.6	2
85	Towards Intelligent Fault Diagnosis under Small Sample Condition via A Signals Augmented Semi-supervised Learning Framework. , 2020, , .		0
86	A novel unknown-input and single-output approach to extract vibration patterns via a roving continuous random excitation. ISA Transactions, 2021, , .	5.7	0