

# Ruqiang Yan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2993788/publications.pdf>

Version: 2024-02-01

281  
papers

15,675  
citations

26630

56  
h-index

18647

119  
g-index

284  
all docs

284  
docs citations

284  
times ranked

8600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biprobables Blade Tip Timing Method for Frequency Identification Based on Active Aliasing Time-Delay Estimation and Dealiasing. IEEE Transactions on Industrial Electronics, 2023, 70, 1939-1948.	7.9	11
2	A Multisource Dense Adaptation Adversarial Network for Fault Diagnosis of Machinery. IEEE Transactions on Industrial Electronics, 2022, 69, 6298-6307.	7.9	45
3	A New Intermediate-Domain SVM-Based Transfer Model for Rolling Bearing RUL Prediction. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1357-1369.	5.8	30
4	Dynamic coupling vibration of rotating shaft-disc-blade system Modeling, mechanism analysis and numerical study. Mechanism and Machine Theory, 2022, 167, 104542.	4.5	20
5	WaveletKernelNet: An Interpretable Deep Neural Network for Industrial Intelligent Diagnosis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2302-2312.	9.3	136
6	Fast Sparsity-Assisted Signal Decomposition With Nonconvex Enhancement for Bearing Fault Diagnosis. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2333-2344.	5.8	20
7	Intelligent Fault Diagnosis for Planetary Gearbox Using Time-Frequency Representation and Deep Reinforcement Learning. IEEE/ASME Transactions on Mechatronics, 2022, 27, 985-998.	5.8	47
8	A perspective survey on deep transfer learning for fault diagnosis in industrial scenarios: Theories, applications and challenges. Mechanical Systems and Signal Processing, 2022, 167, 108487.	8.0	304
9	The emerging graph neural networks for intelligent fault diagnostics and prognostics: A guideline and a benchmark study. Mechanical Systems and Signal Processing, 2022, 168, 108653.	8.0	118
10	Blade Tip Timing Signal Filtering Method Based on Sampling Aliasing Frequency Map. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	6
11	Triplet-Classifier GAN for Finger-Vein Verification. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	8
12	1D-CNN-based damage identification method based on piezoelectric impedance using adjustable inductive shunt circuitry for data enrichment. Structural Health Monitoring, 2022, 21, 1992-2009.	7.5	12
13	Model-driven deep unrolling: Towards interpretable deep learning against noise attacks for intelligent fault diagnosis. ISA Transactions, 2022, 129, 644-662.	5.7	36
14	Robust PVC Identification by Fusing Expert System and Deep Learning. Biosensors, 2022, 12, 185.	4.7	3
15	Bi-LSTM-Based Two-Stream Network for Machine Remaining Useful Life Prediction. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	28
16	Mesh relationship modeling and dynamic characteristic analysis of external spur gears with gear wear. Frontiers of Mechanical Engineering, 2022, 17, .	4.3	5
17	Active Vibration Control Technology in China. IEEE Instrumentation and Measurement Magazine, 2022, 25, 36-44.	1.6	0
18	Digital Twin-Driven Crack Monitoring for Rotating Blade: An L1 regularization Method. Journal of Physics: Conference Series, 2022, 2184, 012022.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Feature Enhancement Based on Regular Sparse Model for Planetary Gearbox Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-16.	4.7	5
20	Effective Convolutional Transformer for Highly Accurate Planetary Gearbox Fault Diagnosis. , 2022, 1, 1-9.		4
21	Machine Remaining Useful Life Prediction via an Attention-Based Deep Learning Approach. IEEE Transactions on Industrial Electronics, 2021, 68, 2521-2531.	7.9	252
22	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	29
23	Contrastive Adversarial Domain Adaptation for Machine Remaining Useful Life Prediction. IEEE Transactions on Industrial Informatics, 2021, 17, 5239-5249.	11.3	65
24	Domain Adaptation-Based Transfer Learning for Gear Fault Diagnosis Under Varying Working Conditions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	21
25	Robust enhanced trend filtering with unknown noise. Signal Processing, 2021, 180, 107889.	3.7	7
26	Adversarial Multiple-Target Domain Adaptation for Fault Classification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	35
27	A joint classification-regression method for multi-stage remaining useful life prediction. Journal of Manufacturing Systems, 2021, 58, 109-119.	13.9	48
28	Ridge-Aware Weighted Sparse Time-Frequency Representation. IEEE Transactions on Signal Processing, 2021, 69, 136-149.	5.3	21
29	Faster Multiscale Dictionary Learning Method With Adaptive Parameter Estimation for Fault Diagnosis of Traction Motor Bearings. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	8
30	Fast multiline spectral reshaping algorithm for active vibration control. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 481-496.	2.9	3
31	Blade Crack Detection using Blade Tip Timing. IEEE Transactions on Instrumentation and Measurement, 2021, , 1-1.	4.7	7
32	Applications of Unsupervised Deep Transfer Learning to Intelligent Fault Diagnosis: A Survey and Comparative Study. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-28.	4.7	137
33	Fault Diagnosis of Rolling Bearing Based on WHVG and GCN. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	36
34	Domain Adversarial Graph Convolutional Network for Fault Diagnosis Under Variable Working Conditions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	63
35	Adaptive Robust Noise Modeling of Sparse Representation for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	20
36	Nonlinear dynamic behavior of rotating blade with breathing crack. Frontiers of Mechanical Engineering, 2021, 16, 196-220.	4.3	23

#	ARTICLE	IF	CITATIONS
37	Spline adaptive filters based on real-time over-sampling strategy for nonlinear system identification. <i>Nonlinear Dynamics</i> , 2021, 103, 657-675.	5.2	7
38	Decoupled Feature-Temporal CNN: Explaining Deep Learning-Based Machine Health Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	4.7	16
39	A U-Net-Based Approach for Tool Wear Area Detection and Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	20
40	Degradation-Aware Remaining Useful Life Prediction With LSTM Autoencoder. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	56
41	An Autocorrelation Method for Asynchronous Vibration Feature Extraction in Blade Tip Timing. , 2021, , .		0
42	Low-dimensional multi-scale Fisher discriminant dictionary learning for intelligent gear-fault diagnosis. <i>Measurement Science and Technology</i> , 2021, 32, 084001.	2.6	2
43	Adaptive sparse denoising and periodicity weighted spectrum separation for compound bearing fault diagnosis. <i>Measurement Science and Technology</i> , 2021, 32, 085011.	2.6	10
44	Machine Anomaly Detection under Changing Working Condition with Syncretic Self-Regression Auto-Encoder. , 2021, , .		1
45	A Virtual Blade Tip Timing Measurement Method for Foreign Object Damage. , 2021, , .		1
46	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021, 34, .	3.7	70
47	Multi-Scale Convolutional Gated Recurrent Unit Networks for Tool Wear Prediction in Smart Manufacturing. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021, 34, .	3.7	10
48	A Multidimensional Feature Extraction and Selection Method for ECG Arrhythmias Classification. <i>IEEE Sensors Journal</i> , 2021, 21, 14180-14190.	4.7	18
49	Compound fault diagnosis of rolling bearing using PWK-sparse denoising and periodicity filtering. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 181, 109604.	5.0	16
50	Hierarchical attention graph convolutional network to fuse multi-sensor signals for remaining useful life prediction. <i>Reliability Engineering and System Safety</i> , 2021, 215, 107878.	8.9	81
51	Attention-based sequence to sequence model for machine remaining useful life prediction. <i>Neurocomputing</i> , 2021, 466, 58-68.	5.9	35
52	Learning from Class-imbalanced Data with a Model-Agnostic Framework for Machine Intelligent Diagnosis. <i>Reliability Engineering and System Safety</i> , 2021, 216, 107934.	8.9	34
53	Terahertz nondestructive quantitative characterization for layer thickness based on sparse representation method. <i>NDT and E International</i> , 2021, 124, 102536.	3.7	16
54	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 12739-12749.	7.9	143

#	ARTICLE	IF	CITATIONS
55	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	14
56	Model Parameter Transfer for Gear Fault Diagnosis under Varying Working Conditions. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	7
57	An OPR-Free Blade Tip Timing Method for Rotating Blade Condition Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	4
58	ArcVein-Arccosine Center Loss for Finger Vein Verification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	26
59	Adaptive Iterative Approach for Efficient Signal Processing of Blade Tip Timing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	7
60	Model-based detection of soft faults using the smoothed residual for a control system. Measurement Science and Technology, 2021, 32, 015107.	2.6	6
61	Spline adaptive inverse control scheme with filtered error feedback. Nonlinear Dynamics, 2021, 106, 2309-2328.	5.2	1
62	Modeling and Analysis of Phononic Crystal With Coupled Lanes for Enhanced Elastic Wave Attenuation. Journal of Vibration and Acoustics, Transactions of the ASME, 2021, 143, .	1.6	7
63	Message From the Incoming Editor-in-Chief. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-1.	4.7	1
64	Guest Editorial Special Section for ICSMD2020. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-2.	4.7	0
65	Rotating Machinery Fault Diagnosis Based on Spatial-Temporal GCN. , 2021, , .		1
66	Domain Adaptive Sparse Transformer for Aeroengine Bevel Gear Fault Diagnosis. , 2021, , .		1
67	Dispersion Compensation Strategy Based on Sparse Bayesian Learning in Terahertz Nondestructive Evaluation. , 2021, , .		0
68	Multi-feature Fused Bidirectional Long Short-term Memory for Remaining Useful Life Prediction. , 2021, , .		1
69	Robust Supervised Contrastive Learning for Fault Diagnosis Under Different Noises and Conditions. , 2021, , .		2
70	Dynamic Model-based Digital Twin for Crack Detection of Aeroengine Disk. , 2021, , .		1
71	An Analytical Representation Method for Dynamic Behavior of Rotating Blade with Transverse Crack. , 2021, , .		0
72	Denosing Fused Wavelets Net for Aeroengine Bevel Gear Fault Diagnosis. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
73	Real-time Minor Defect Recognition of Pseudo-Terahertz Images via the Improved YOLO Network. , 2021, , .		3
74	A Subspace Domain Adaptation Method: SSA-Theoretic Drift Correction for Gear Fault Diagnosis under Varying Working Conditions. , 2021, , .		0
75	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 419-431.	4.7	26
76	LSTM-Based Auto-Encoder Model for ECG Arrhythmias Classification. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1232-1240.	4.7	160
77	Transfer between multiple machine plants: A modified fast self-organizing feature map and two-order selective ensemble based fault diagnosis strategy. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107155.	5.0	7
78	Composite-Graph-Based Sparse Subspace Clustering for Machine Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1850-1859.	4.7	23
79	Generalized Vold-Kalman Filtering for Nonstationary Compound Faults Feature Extraction of Bearing and Gear. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 401-410.	4.7	43
80	Probabilistic Latent Semantic Analysis-Based Gear Fault Diagnosis Under Variable Working Conditions. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2845-2857.	4.7	18
81	Convolutional Autoencoder Model for Finger-Vein Verification. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2067-2074.	4.7	57
82	DCNN-Based Multi-Signal Induction Motor Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2658-2669.	4.7	237
83	Static and dynamic analysis of cylindrical shell by different kinds of B-spline wavelet finite elements on the interval. Engineering With Computers, 2020, 36, 1903-1914.	6.1	3
84	Knowledge Transfer for Rotary Machine Fault Diagnosis. IEEE Sensors Journal, 2020, 20, 8374-8393.	4.7	176
85	A New Intelligent Bearing Fault Diagnosis Method Using SDP Representation and SE-CNN. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2377-2389.	4.7	178
86	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. ISA Transactions, 2020, 107, 224-255.	5.7	271
87	Intelligent Bearing Fault Diagnosis Using Multi-Head Attention-Based CNN. Procedia Manufacturing, 2020, 49, 112-118.	1.9	55
88	Frequency domain spline adaptive filters. Signal Processing, 2020, 177, 107752.	3.7	13
89	Lifelong Condition Monitoring Based on NB-IoT for Anomaly Detection of Machinery Equipment. Procedia Manufacturing, 2020, 49, 144-149.	1.9	12
90	Few-shot transfer learning for intelligent fault diagnosis of machine. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108202.	5.0	150

#	ARTICLE	IF	CITATIONS
91	Generalized Gaussian Noise Distribution Enabled Sparse Representation Model for Bearing Fault Diagnosis. , 2020, , .		7
92	Guest Editorial Special Issue on Smart Sensing and Artificial Intelligence-Enabled Data Analytics for Health Monitoring of Engineering Systems. IEEE Sensors Journal, 2020, 20, 8203-8203.	4.7	4
93	Dynamic modeling of planetary gear set with tooth surface wear. Procedia Manufacturing, 2020, 49, 49-54.	1.9	15
94	Multi-scale CNN for Multi-sensor Feature Fusion in Helical Gear Fault Detection. Procedia Manufacturing, 2020, 49, 89-93.	1.9	15
95	Ss-InfoGAN for Class-Imbalance Classification of Bearing Faults. Procedia Manufacturing, 2020, 49, 99-104.	1.9	13
96	An OPR-free Blade Tip Timing Method Based on Blade Spacing Change. , 2020, , .		4
97	A structural impedance measurement method by using polyvinylidene fluoride as actuator and sensor. Review of Scientific Instruments, 2020, 91, 085111.	1.3	6
98	Decoupled Feature-Temporal CNN: Explaining Deep Learning-Based Machine Health Monitoring. , 2020, , .		1
99	A New Penalty Domain Selection Machine Enabled Transfer Learning for Gearbox Fault Recognition. IEEE Transactions on Industrial Electronics, 2020, 67, 8743-8754.	7.9	16
100	Adaptive Channel Weighted CNN With Multisensor Fusion for Condition Monitoring of Helicopter Transmission System. IEEE Sensors Journal, 2020, 20, 8364-8373.	4.7	44
101	Entropy Measures in Machine Fault Diagnosis: Insights and Applications. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2607-2620.	4.7	102
102	Precise Positioning of Linear Motor Mover Directly From the Phase Difference Analysis. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1566-1577.	5.8	6
103	Weak chatter detection in milling based on sparse dictionary. Procedia Manufacturing, 2020, 48, 839-843.	1.9	5
104	A Hybrid Fault Diagnosis Approach for Blade Crack Detection using Blade Tip Timing. , 2020, , .		4
105	A Two-Order Transfer Model for Gearbox Fault Diagnosis. , 2020, , .		0
106	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. IEEE Transactions on Industrial Informatics, 2020, 16, 7479-7488.	11.3	77
107	An Adaptive Online Blade Health Monitoring Method: From Raw Data to Parameters Identification. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2581-2592.	4.7	51
108	A Fast Multi-tasking Solution: NMF-Theoretic Co-clustering for Gear Fault Diagnosis under Variable Working Conditions. Chinese Journal of Mechanical Engineering (English Edition), 2020, 33, .	3.7	6

#	ARTICLE	IF	CITATIONS
109	Experimental demonstration of the wave attenuation capability of a piezoelectric metamaterial beam by using correlation for signal processing. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	9
110	Coupled Piezoelectric Phononic Crystal for Adaptive Broadband Wave Attenuation by Destructive Interference. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	11
111	Compound Fault Diagnosis of Rolling Bearing Based on Transformation Scale Improved BPD and MCKD. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 269-280.	0.6	0
112	Exploring Sample/Feature Hybrid Transfer for Gear Fault Diagnosis Under Varying Working Conditions. <i>Journal of Computing and Information Science in Engineering</i> , 2020, 20, .	2.7	10
113	Differentiable Architecture Search for Aeroengine Bevel Gear Fault Diagnosis. , 2020, , .		9
114	An Impedance-based Structural Health Monitoring by Using Piezoelectric Transducers. , 2020, , .		0
115	Affine Projection Spline Adaptive Filter for Nonlinear System Identification. , 2020, , .		1
116	Dual-lane Phononic Crystal for Low-frequency Elastic Wave Attenuation. , 2020, , .		0
117	A KLIEP-based Transfer Learning Model for Gear Fault Diagnosis under Varying Working Conditions. , 2020, , .		3
118	Rolling Bearing Fault Diagnosis Based on Horizontal Visibility Graph and Graph Neural Networks. , 2020, , .		20
119	Deep learning and its applications to machine health monitoring. <i>Mechanical Systems and Signal Processing</i> , 2019, 115, 213-237.	8.0	1,616
120	Machine health monitoring based on locally linear embedding with kernel sparse representation for neighborhood optimization. <i>Mechanical Systems and Signal Processing</i> , 2019, 114, 25-34.	8.0	56
121	Highly Accurate Machine Fault Diagnosis Using Deep Transfer Learning. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 2446-2455.	11.3	829
122	Centralized Energy-Efficient Clustering Routing Protocol for Mobile Nodes in Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2019, 23, 1215-1218.	4.1	35
123	Spline adaptive filter with arctangent-momentum strategy for nonlinear system identification. <i>Signal Processing</i> , 2019, 164, 99-109.	3.7	33
124	Adaptive vibration control on electrohydraulic shaking table system with an expanded frequency range: Theory analysis and experimental study. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 122-137.	8.0	22
125	EKG Arrhythmias Detection Using Auxiliary Classifier Generative Adversarial Network and Residual Network. <i>IEEE Access</i> , 2019, 7, 100910-100922.	4.2	50
126	Interval variable step-size spline adaptive filter for the identification of nonlinear block-oriented system. <i>Nonlinear Dynamics</i> , 2019, 98, 1629-1643.	5.2	11

#	ARTICLE	IF	CITATIONS
127	Generative adversarial networks for data augmentation in machine fault diagnosis. Computers in Industry, 2019, 106, 85-93.	9.9	319
128	Induction Motor Condition Monitoring for Sustainable Manufacturing. Procedia Manufacturing, 2019, 33, 802-809.	1.9	4
129	Blade Tip Timing: from Raw Data to Parameters Identification. , 2019, , .		6
130	Transfer between multiple working conditions: A new TCCHC-based exponential semi-deterministic extended Kalman filter for bearing remaining useful life prediction. Measurement: Journal of the International Measurement Confederation, 2019, 142, 148-162.	5.0	19
131	A Deep Coupled Network for Health State Assessment of Cutting Tools Based on Fusion of Multisensory Signals. IEEE Transactions on Industrial Informatics, 2019, 15, 6415-6424.	11.3	44
132	Combination of DNN and Improved KNN for Indoor Location Fingerprinting. Wireless Communications and Mobile Computing, 2019, 2019, 1-9.	1.2	29
133	Model predictive control based active chatter control in milling process. Mechanical Systems and Signal Processing, 2019, 128, 266-281.	8.0	44
134	Bearing Degradation Evaluation Using Improved Cross Recurrence Quantification Analysis and Nonlinear Auto-Regressive Neural Network. IEEE Access, 2019, 7, 38937-38946.	4.2	13
135	Bearing fault diagnosis based on Cluster-contraction Stage-wise Orthogonal-Matching-Pursuit. Measurement: Journal of the International Measurement Confederation, 2019, 140, 240-253.	5.0	17
136	Tachless Speed Estimation in Order Tracking: A Review With Application to Rotating Machine Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2315-2332.	4.7	132
137	Intelligent Time-Domain Parameters Matching for Shock Response Spectrum and Its Experimental Validation in Active Vibration Control Systems. Shock and Vibration, 2019, 2019, 1-16.	0.6	2
138	Bearing Fault Diagnosis Based on Visual Symmetrized Dot Pattern and CNNs. , 2019, , .		7
139	Multi-objective Distributed Clustering Algorithm in Wireless Sensor Networks Using the Analytic Hierarchy Process. , 2019, , .		1
140	Robust active control based milling chatter suppression with perturbation model via piezoelectric stack actuators. Mechanical Systems and Signal Processing, 2019, 120, 808-835.	8.0	47
141	Deep Transfer Learning Based on Sparse Autoencoder for Remaining Useful Life Prediction of Tool in Manufacturing. IEEE Transactions on Industrial Informatics, 2019, 15, 2416-2425.	11.3	329
142	Multi harmonic and random stiffness excitation for milling chatter suppression. Mechanical Systems and Signal Processing, 2019, 120, 777-792.	8.0	27
143	Multi harmonic spindle speed variation for milling chatter suppression and parameters optimization. Precision Engineering, 2019, 55, 268-274.	3.4	24
144	Singular Vector-Inspired Dictionary Learning for Sparse Decomposition of Vibration Signal. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
145	An Image Processing Approach to Machine Fault Diagnosis Based on Visual Words Representation. <i>Procedia Manufacturing</i> , 2018, 19, 42-49.	1.9	10
146	Learning Collaborative Sparsity Structure via Nonconvex Optimization for Feature Recognition. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 4417-4430.	11.3	18
147	Machine Health Monitoring Using Local Feature-Based Gated Recurrent Unit Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 1539-1548.	7.9	561
148	Deep Learning for Improved System Remaining Life Prediction. <i>Procedia CIRP</i> , 2018, 72, 1033-1038.	1.9	57
149	Vold-Kalman generalized demodulation for multi-faults detection of gear and bearing under variable speeds. <i>Procedia Manufacturing</i> , 2018, 26, 1213-1220.	1.9	10
150	Bearing Fault Diagnosis Based on Improved Stagewise Orthogonal Matching Pursuit. , 2018, , .		1
151	Deep Convolutional Neural Network for Early Disk Crack Diagnosis Under Variable Speed. , 2018, , .		0
152	Exploitation of dimension-dependent behavior of piezoelectric metamaterial with LC shunt circuit. <i>EPJ Applied Physics</i> , 2018, 83, 20501.	0.7	3
153	Multi-Mode Particle Filter for Bearing Remaining Life Prediction. , 2018, , .		1
154	Broadening Bandgap Width of Piezoelectric Metamaterial by Introducing Cavity. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1606.	2.5	13
155	Gear fault diagnosis based on recurrence network. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018, 34, 3651-3660.	1.4	3
156	Electric vehicle battery temperature measuring method based on magnetic nanoparticles. , 2018, , .		0
157	Convolutional Auto-Encoder Based Deep Feature Learning for Finger-Vein Verification. , 2018, , .		20
158	Long short-term memory for machine remaining life prediction. <i>Journal of Manufacturing Systems</i> , 2018, 48, 78-86.	13.9	292
159	Convolutional Discriminative Feature Learning for Induction Motor Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 1350-1359.	11.3	236
160	Special Issue on The 2016 IEEE International Instrumentation and Measurement Technology Conference. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017, 66, 850-851.	4.7	0
161	Multiple fault separation and detection by joint subspace learning for the health assessment of wind turbine gearboxes. <i>Frontiers of Mechanical Engineering</i> , 2017, 12, 333-347.	4.3	5
162	Weighted low-rank sparse model via nuclear norm minimization for bearing fault detection. <i>Journal of Sound and Vibration</i> , 2017, 400, 270-287.	3.9	31

#	ARTICLE	IF	CITATIONS
163	A deep learning-based approach to material removal rate prediction in polishing. CIRP Annals - Manufacturing Technology, 2017, 66, 429-432.	3.6	103
164	Virtualization and deep recognition for system fault classification. Journal of Manufacturing Systems, 2017, 44, 310-316.	13.9	133
165	Advanced Signal Processing for Structural Health Monitoring. Smart Sensors, Measurement and Instrumentation, 2017, , 1-11.	0.6	4
166	Induction Motor Fault Diagnosis and Classification Through Sparse Representation. , 2017, , .		1
167	Bearing fault diagnosis using wavelet domain operator-based signal separation. , 2017, , .		2
168	Analysis of Laminated Plates and Shells Using B-Spline Wavelet on Interval Finite Element. International Journal of Structural Stability and Dynamics, 2017, 17, 1750062.	2.4	10
169	A multi-time scale approach to remaining useful life prediction in rolling bearing. Mechanical Systems and Signal Processing, 2017, 83, 549-567.	8.0	152
170	A wireless general air-conditioner remote-controller for smart homes. , 2017, , .		1
171	Gear Damage Severity Evaluation Based on Cross Recurrence Quantification Analysis. , 2017, , .		3
172	Learning to Monitor Machine Health with Convolutional Bi-Directional LSTM Networks. Sensors, 2017, 17, 273.	3.8	498
173	Gear Fault Diagnosis Based on Recurrence Network. , 2017, , .		0
174	Design and Implementation of a Hypothermic Machine Perfusion Device for Clinical Preservation of Isolated Organs. Sensors, 2017, 17, 1256.	3.8	3
175	Non-negative Matrix Factorization and Co-clustering: A Promising Tool for Multi-tasks Bearing Fault Diagnosis. Journal of Physics: Conference Series, 2017, 842, 012046.	0.4	0
176	Topic Correlation Analysis for Bearing Fault Diagnosis Under Variable Operating Conditions. Journal of Physics: Conference Series, 2017, 842, 012045.	0.4	4
177	Gearbox Fault Diagnosis Using Complementary Ensemble Empirical Mode Decomposition and Permutation Entropy. Shock and Vibration, 2016, 2016, 1-8.	0.6	22
178	Gearbox Fault Diagnosis in a Wind Turbine Using Single Sensor Based Blind Source Separation. Journal of Sensors, 2016, 2016, 1-14.	1.1	9
179	Damage Models and Assessment Methods. Shock and Vibration, 2016, 2016, 1-1.	0.6	1
180	A Novel Hybrid Error Criterion-Based Active Control Method for on-Line Milling Vibration Suppression with Piezoelectric Actuators and Sensors. Sensors, 2016, 16, 68.	3.8	23

#	ARTICLE	IF	CITATIONS
181	Multi-classifiers ensemble with confidence diversity for fault diagnosis in induction motors. , 2016, , .		4
182	Learning features from vibration signals for induction motor fault diagnosis. , 2016, , .		35
183	SVD-based dictionary learning for bearing fault diagnosis. , 2016, , .		4
184	Machine health monitoring with LSTM networks. , 2016, , .		115
185	A thermostatic control strategy based on multi-sensor data fusion and fuzzy-PID method. , 2016, , .		0
186	Kurtosis based weighted sparse model with convex optimization technique for bearing fault diagnosis. Mechanical Systems and Signal Processing, 2016, 80, 349-376.	8.0	125
187	A sparse auto-encoder-based deep neural network approach for induction motor faults classification. Measurement: Journal of the International Measurement Confederation, 2016, 89, 171-178.	5.0	570
188	Wind turbine condition monitoring and fault diagnosis in China. IEEE Instrumentation and Measurement Magazine, 2016, 19, 22-28.	1.6	27
189	Multivariable wavelet finite element-based vibration model for quantitative crack identification by using particle swarm optimization. Journal of Sound and Vibration, 2016, 375, 200-216.	3.9	46
190	Induction motor fault diagnosis based on ensemble classifiers. , 2016, , .		2
191	A correlation-based approach to trustworthy sensing for cyber-physical systems. , 2016, , .		1
192	Instrumentation and measurement around the world: Region 10 [Guest Editorial]. IEEE Instrumentation and Measurement Magazine, 2016, 19, 5-5.	1.6	0
193	Improving calibration accuracy of a vibration sensor through a closed loop measurement system. IEEE Instrumentation and Measurement Magazine, 2016, 19, 42-46.	1.6	10
194	Nonlocal sparse model with adaptive structural clustering for feature extraction of aero-engine bearings. Journal of Sound and Vibration, 2016, 368, 223-248.	3.9	29
195	Mutual Information-Assisted Wavelet Function Selection for Enhanced Rolling Bearing Fault Diagnosis. Shock and Vibration, 2015, 2015, 1-9.	0.6	3
196	Remaining Useful Life Prediction of Rolling Bearings Using an Enhanced Particle Filter. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2696-2707.	4.7	143
197	Bearing fault diagnosis based on SVD feature extraction and transfer learning classification. , 2015, , .		27
198	In-process modal parameter identification for spindle health monitoring. Mechatronics, 2015, 31, 42-49.	3.3	9

#	ARTICLE	IF	CITATIONS
199	The IEEE IMS Chapter Nanjing/Shanghai/Wuhan Jt. sections. IEEE Instrumentation and Measurement Magazine, 2015, 18, 41-41.	1.6	0
200	Sparse Feature Identification Based on Union of Redundant Dictionary for Wind Turbine Gearbox Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2015, 62, 6594-6605.	7.9	144
201	Induction motor fault diagnosis using multiple class feature selection. , 2015, , .		11
202	Aero-Engine Fault Diagnosis Using Improved Local Discriminant Bases and Support Vector Machine. Mathematical Problems in Engineering, 2014, 2014, 1-9.	1.1	6
203	Mathematical Methods and Modeling in Machine Fault Diagnosis. Mathematical Problems in Engineering, 2014, 2014, 1-3.	1.1	1
204	Integration of EEMD and ICA for wind turbine gearbox diagnosis. Wind Energy, 2014, 17, 757-773.	4.2	76
205	Rolling Bearing Fault Diagnosis Based on CEEMD and Time Series Modeling. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	19
206	Bearing Degradation Evaluation Using Recurrence Quantification Analysis and Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2599-2610.	4.7	133
207	Multi-scale enveloping order spectrogram for rotating machine health diagnosis. Mechanical Systems and Signal Processing, 2014, 46, 28-44.	8.0	45
208	Wavelets for fault diagnosis of rotary machines: A review with applications. Signal Processing, 2014, 96, 1-15.	3.7	1,081
209	Wind Turbine Gearbox Fault Diagnosis Based on Wavelet Domain Stationary Subspace Analysis. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2014, 50, 9.	0.5	5
210	Dual-scale cascaded adaptive stochastic resonance for rotary machine health monitoring. Journal of Manufacturing Systems, 2013, 32, 529-535.	13.9	44
211	Pulse signal analysis based on wavelet packet transform and hidden Markov model estimation. , 2013, , .		2
212	A 3-D Reconstruction Solution to Current Density Imaging Based on Acoustoelectric Effect by Deconvolution: A Simulation Study. IEEE Transactions on Biomedical Engineering, 2013, 60, 1181-1190.	4.2	18
213	Energy-Aware Sensor Node Design With Its Application in Wireless Sensor Networks. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1183-1191.	4.7	118
214	EOG Artifact Correction from EEG Recording Using Stationary Subspace Analysis and Empirical Mode Decomposition. Sensors, 2013, 13, 14839-14859.	3.8	68
215	Bearing performance degradation evaluation using recurrence quantification analysis and auto-regression model. , 2013, , .		10
216	Recurrence plot entropy for machine defect severity assessment. Smart Structures and Systems, 2013, 11, 299-314.	1.9	5

#	ARTICLE	IF	CITATIONS
217	Design and realization of an intelligent sensor node with its application in energy-aware WSNs. , 2012, , .		5
218	Noise-assisted data processing in measurement science: Part two. IEEE Instrumentation and Measurement Magazine, 2012, 15, 32-35.	1.6	5
219	Noise-assisted data processing in measurement science: Part one part 40 in a series of tutorials on instrumentation and measurement. IEEE Instrumentation and Measurement Magazine, 2012, 15, 41-44.	1.6	9
220	A hybrid approach to bearing defect diagnosis in rotary machines. CIRP Journal of Manufacturing Science and Technology, 2012, 5, 357-365.	4.5	11
221	Damage assessment of mechanical systems based on recurrence quantification analysis. , 2012, , .		0
222	Current envelope analysis for defect identification and diagnosis in induction motors. Journal of Manufacturing Systems, 2012, 31, 380-387.	13.9	62
223	Three-dimensional noninvasive ultrasound Joule heat tomography based on the acousto-electric effect using unipolar pulses: a simulation study. Physics in Medicine and Biology, 2012, 57, 7689-7708.	3.0	7
224	Experimental Study on Virtual Texture Force Perception Using the JND Method. International Journal of Advanced Robotic Systems, 2012, 9, 63.	2.1	3
225	A Nonlinear Noise Reduction Approach to Vibration Analysis for Bearing Health Diagnosis. Journal of Computational and Nonlinear Dynamics, 2012, 7, .	1.2	5
226	Permutation entropy: A nonlinear statistical measure for status characterization of rotary machines. Mechanical Systems and Signal Processing, 2012, 29, 474-484.	8.0	301
227	Variable-Word-Length Coding for Energy-Aware Signal Transmission. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 850-864.	4.7	16
228	Impact of wavelet basis on vibration analysis for rolling bearing defect diagnosis. , 2011, , .		6
229	Rolling bearing defect severity evaluation using recurrence plot entropy. , 2011, , .		4
230	Wavelets. , 2011, , .		56
231	Design and realization of an array pulse detecting tactile sensor. , 2011, , .		4
232	Broken-Rotor-Bar Diagnosis for Induction Motors. Journal of Physics: Conference Series, 2011, 305, 012026.	0.4	15
233	An introduction to complexity measure: Non-linear statistical parameters in measurements: Part 35 in a series of tutorials on instrumentation and measurement. IEEE Instrumentation and Measurement Magazine, 2011, 14, 27-35.	1.6	5
234	Prognosis of Defect Propagation Based on Recurrent Neural Networks. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 703-711.	4.7	233

#	ARTICLE	IF	CITATIONS
235	Wavelet domain principal feature analysis for spindle health diagnosis. Structural Health Monitoring, 2011, 10, 631-642.	7.5	20
236	Signals and Signal Processing in Manufacturing. , 2011, , 1-15.		1
237	Wavelet Packet Transform. , 2011, , 69-81.		21
238	Wavelet Packet-Transform for Defect Severity Classification. , 2011, , 125-147.		0
239	Wavelet-Based Multiscale Enveloping. , 2011, , 83-101.		0
240	Continuous Wavelet Transform. , 2011, , 33-48.		5
241	Designing Your Own Wavelet. , 2011, , 189-203.		0
242	Harmonic wavelet-based data filtering for enhanced machine defect identification. Journal of Sound and Vibration, 2010, 329, 3203-3217.	3.9	60
243	Performance enhancement of ensemble empirical mode decomposition. Mechanical Systems and Signal Processing, 2010, 24, 2104-2123.	8.0	188
244	A Nonlinear Time Series Analysis Method for Health Monitoring of Rolling Bearings. , 2010, , .		1
245	Correlation Dimension Analysis: A Non-linear Time Series Analysis for Data Processing. IEEE Instrumentation and Measurement Magazine, 2010, 13, 19-25.	1.6	7
246	Wavelet packet base selection for gearbox defect severity classification. , 2010, , .		0
247	Design of an impulse wavelet for structural defect identification. , 2010, , .		2
248	BASE WAVELET SELECTION FOR BEARING VIBRATION SIGNAL ANALYSIS. International Journal of Wavelets, Multiresolution and Information Processing, 2009, 07, 411-426.	1.3	75
249	Experimental Evaluation of a Unified Time-Scale-Frequency Technique for Bearing Defect Feature Extraction. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.6	19
250	Energy-Based Feature Extraction for Defect Diagnosis in Rotary Machines. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3130-3139.	4.7	73
251	Machine condition monitoring using principal component representations. Mechanical Systems and Signal Processing, 2009, 23, 446-466.	8.0	83
252	Unified timeâ€‘scaleâ€‘frequency analysis for machine defect signature extraction: Theoretical framework. Mechanical Systems and Signal Processing, 2009, 23, 226-235.	8.0	20

#	ARTICLE	IF	CITATIONS
253	Multi-scale enveloping spectrogram for vibration analysis in bearing defect diagnosis. Tribology International, 2009, 42, 293-302.	5.9	78
254	Detection of signal transients based on wavelet and statistics for machine fault diagnosis. Mechanical Systems and Signal Processing, 2009, 23, 1076-1097.	8.0	72
255	Tutorial 21 wavelet transform: a mathematical tool for non-stationary signal processing in measurement science part 2 in a series of tutorials in instrumentation and measurement. IEEE Instrumentation and Measurement Magazine, 2009, 12, 35-44.	1.6	23
256	Rolling bearing defect severity assessment under varying operating conditions. International Journal of Manufacturing Research, 2009, 4, 37.	0.2	4
257	A module-based software system for spindle condition monitoring. International Journal of Mechatronics and Manufacturing Systems, 2009, 2, 532.	0.1	1
258	Rotary Machine Health Diagnosis Based on Empirical Mode Decomposition. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.6	102
259	Local Geometric Projection-Based Noise Reduction for Vibration Signal Analysis in Rolling Bearings. , 2008, , .		0
260	Condition Monitoring of Operating Spindle Based on Stochastic Subspace Identification. , 2007, , 1129.		1
261	Open Architecture Software Design for Online Spindle Health Monitoring. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	2
262	A Tour of the Tour of the Hilbert-Huang Transform: An Empirical Tool for Signal Analysis. IEEE Instrumentation and Measurement Magazine, 2007, 10, 40-45.	1.6	54
263	Approximate Entropy as a diagnostic tool for machine health monitoring. Mechanical Systems and Signal Processing, 2007, 21, 824-839.	8.0	362
264	Subspace-based gearbox condition monitoring by kernel principal component analysis. Mechanical Systems and Signal Processing, 2007, 21, 1755-1772.	8.0	121
265	Wavelet-Based Multi-Fractal Spectrum for Machine Defect Identification. , 2007, , .		2
266	A Neural Network Approach to Bearing Health Assessment. , 2006, , .		4
267	Hilbert-Huang Transform-Based Vibration Signal Analysis for Machine Health Monitoring. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2320-2329.	4.7	284
268	Sensor Placement and Signal Processing for Bearing Condition Monitoring. Springer Series in Advanced Manufacturing, 2006, , 167-191.	0.5	11
269	Energy efficient wireless sensor network for dynamic system monitoring. , 2005, , .		7
270	An efficient approach to machine health diagnosis based on harmonic wavelet packet transform. Robotics and Computer-Integrated Manufacturing, 2005, 21, 291-301.	9.9	85

#	ARTICLE	IF	CITATIONS
271	Generalized harmonic wavelet as an adaptive filter for machine health diagnosis. , 2005, 5765, 786.		2
272	Multi-Scale Enveloping Spectrogram for Bearing Defect Detection. , 2005, , 855.		2
273	A Hybrid Signal Processing Technique for Bearing Defect Severity Estimation. , 2005, , 857.		0
274	Complexity as a Measure for Machine Health Evaluation. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1327-1334.	4.7	108
275	Harmonic wavelet packet transform for on-line system health diagnosis. , 2004, 5391, 512.		5
276	A Hybrid Signal Processing Approach to Sensor Data Analysis. , 2003, , .		7
277	Transient Signal Analysis Based on Hilbert-Huang Transform. , 0, , .		3
278	Complexity as a measure for machine fault detection and diagnosis. , 0, , .		1
279	Machine health diagnosis based on approximate entropy. , 0, , .		5
280	A Bayesian network approach to energy-aware distributed sensing. , 0, , .		8
281	A Neural Network Approach to Bearing Health Assessment. , 0, , .		0