Chuang Sun

List of Publications by Year
in descending order

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46 papers	3,264 citations	218677 26 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	2020 citing authors

#	Article	IF	Citations
1	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
2	Deep learning algorithms for rotating machinery intelligent diagnosis: An open source benchmark study. ISA Transactions, 2020, 107, 224-255.	5.7	271
3	Dislocated Time Series Convolutional Neural Architecture: An Intelligent Fault Diagnosis Approach for Electric Machine. IEEE Transactions on Industrial Informatics, 2017, 13, 1310-1320.	11.3	268
4	Deep Coupling Autoencoder for Fault Diagnosis With Multimodal Sensory Data. IEEE Transactions on Industrial Informatics, 2018, 14, 1137-1145.	11.3	198
5	Knowledge Transfer for Rotary Machine Fault Diagnosis. IEEE Sensors Journal, 2020, 20, 8374-8393.	4.7	176
6	Joint Learning of Degradation Assessment and RUL Prediction for Aeroengines via Dual-Task Deep LSTM Networks. IEEE Transactions on Industrial Informatics, 2019, 15, 5023-5032.	11.3	172
7	Sparse Deep Stacking Network for Fault Diagnosis of Motor. IEEE Transactions on Industrial Informatics, 2018, 14, 3261-3270.	11.3	155
8	Few-shot transfer learning for intelligent fault diagnosis of machine. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108202.	5.0	150
9	Multireceptive Field Graph Convolutional Networks for Machine Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 12739-12749.	7.9	143
10	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
11	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
12	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
13	Discriminative Deep Belief Networks with Ant Colony Optimization for Health Status Assessment of Machine. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3115-3125.	4.7	101
14	Hierarchical attention graph convolutional network to fuse multi-sensor signals for remaining useful life prediction. Reliability Engineering and System Safety, 2021, 215, 107878.	8.9	81
15	Fault-Attention Generative Probabilistic Adversarial Autoencoder for Machine Anomaly Detection. IEEE Transactions on Industrial Informatics, 2020, 16, 7479-7488.	11.3	77
16	Challenges and Opportunities of AI-Enabled Monitoring, Diagnosis & Prognosis: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	70
17	Deep-Learning-Based Open Set Fault Diagnosis by Extreme Value Theory. IEEE Transactions on Industrial Informatics, 2022, 18, 185-196.	11.3	69
18	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

#	Article	IF	Citations
19	Remaining life prognostics of rolling bearing based on relative features and multivariable support vector machine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 2849-2860.	2.1	58
20	Machine health monitoring based on locally linear embedding with kernel sparse representation for neighborhood optimization. Mechanical Systems and Signal Processing, 2019, 114, 25-34.	8.0	56
21	Explainable Convolutional Neural Network for Gearbox Fault Diagnosis. Procedia CIRP, 2019, 80, 476-481.	1.9	56
22	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
23	Adaptive Channel Weighted CNN With Multisensor Fusion for Condition Monitoring of Helicopter Transmission System. IEEE Sensors Journal, 2020, 20, 8364-8373.	4.7	44
24	Conditional Adversarial Domain Adaptation With Discrimination Embedding for Locomotive Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	29
25	Sparse representation theory for support vector machine kernel function selection and its application in high-speed bearing fault diagnosis. ISA Transactions, 2021, 118, 207-218.	5.7	29
26	Support vector machine-based Grassmann manifold distance for health monitoring of viscoelastic sandwich structure with material ageing. Journal of Sound and Vibration, 2016, 368, 249-263.	3.9	26
27	Sparse Multiperiod Group Lasso for Bearing Multifault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 419-431.	4.7	26
28	Composite-Graph-Based Sparse Subspace Clustering for Machine Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1850-1859.	4.7	23
29	Subspace-based MVE for performance degradation assessment of aero-engine bearings with multimodal features. Mechanical Systems and Signal Processing, 2019, 124, 298-312.	8.0	22
30	A U-Net-Based Approach for Tool Wear Area Detection and Identification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	20
31	Ensemble deep learning with multi-objective optimization for prognosis of rotating machinery. ISA Transactions, 2021, 113, 166-174.	5.7	19
32	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
33	Conditional Adversarial Domain Generalization With a Single Discriminator for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	15
34	A Quantitative Intelligent Diagnosis Method for Early Weak Faults of Aviation High-speed Bearings. ISA Transactions, 2019, 93, 370-383.	5.7	14
35	Bayesian Differentiable Architecture Search for Efficient Domain Matching Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	14
36	Interinstance and Intratemporal Self-Supervised Learning With Few Labeled Data for Fault Diagnosis. IEEE Transactions on Industrial Informatics, 2023, 19, 6502-6512.	11.3	12

#	Article	IF	Citations
37	Multi-Scale Convolutional Gated Recurrent Unit Networks for Tool Wear Prediction in Smart Manufacturing. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	10
38	Differentiable Architecture Search for Aeroengine Bevel Gear Fault Diagnosis. , 2020, , .		9
39	Robust Supervised Contrastive Learning for Fault Diagnosis Under Different Noises and Conditions. , 2021, , .		2
40	Bearing Fault Diagnosis Using Hyper-Laplacian Priors and Non-convex Optimization. , 2018, , .		1
41	Machine Anomaly Detection under Changing Working Condition with Syncretic Self-Regression Auto-Encoder. , 2021, , .		1
42	Coupling Deep Models and Extreme Value Theory for Open Set Fault Diagnosis. , 2020, , .		1
43	Domain Adaptive Sparse Transformer for Aeroengine Bevel Gear Fault Diagnosis. , 2021, , .		1
44	Dynamic Model-based Digital Twin for Crack Detection of Aeroengine Disk. , 2021, , .		1
45	Denoising Fused Wavelets Net for Aeroengine Bevel Gear Fault Diagnosis. , 2021, , .		1
46	Hybrid intelligent fault diagnosis based on quotient space. , 2011, , .		0