

# Konstantinos C Gryllias

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6560564/publications.pdf>

Version: 2024-02-01

68  
papers

2,426  
citations

279701

23  
h-index

206029

48  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1535  
citing authors

#	ARTICLE	IF	CITATIONS
1	A perspective survey on deep transfer learning for fault diagnosis in industrial scenarios: Theories, applications and challenges. <i>Mechanical Systems and Signal Processing</i> , 2022, 167, 108487.	4.4	304
2	A deep learning method for bearing fault diagnosis based on Cyclic Spectral Coherence and Convolutional Neural Networks. <i>Mechanical Systems and Signal Processing</i> , 2020, 140, 106683.	4.4	285
3	Mechanical fault diagnosis using Convolutional Neural Networks and Extreme Learning Machine. <i>Mechanical Systems and Signal Processing</i> , 2019, 133, 106272.	4.4	214
4	Intelligent Fault Diagnosis for Rotary Machinery Using Transferable Convolutional Neural Network. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 339-349.	7.2	197
5	Rolling element bearing fault detection in industrial environments based on a K-means clustering approach. <i>Expert Systems With Applications</i> , 2011, 38, 2888-2911.	4.4	186
6	A Support Vector Machine approach based on physical model training for rolling element bearing fault detection in industrial environments. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 326-344.	4.3	179
7	Domain Adversarial Transfer Network for Cross-Domain Fault Diagnosis of Rotary Machinery. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 8702-8712.	2.4	158
8	Improved Envelope Spectrum via Feature Optimisation-gram (IESFOgram): A novel tool for rolling element bearing diagnostics under non-stationary operating conditions. <i>Mechanical Systems and Signal Processing</i> , 2020, 144, 106891.	4.4	82
9	KDamping: A stiffness based vibration absorption concept. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 588-606.	1.5	73
10	A semi-supervised Support Vector Data Description-based fault detection method for rolling element bearings based on cyclic spectral analysis. <i>Mechanical Systems and Signal Processing</i> , 2020, 140, 106682.	4.4	71
11	Bearing diagnostics under strong electromagnetic interference based on Integrated Spectral Coherence. <i>Mechanical Systems and Signal Processing</i> , 2020, 140, 106673.	4.4	48
12	Estimation of the instantaneous rotation speed using complex shifted Morlet wavelets. <i>Mechanical Systems and Signal Processing</i> , 2013, 38, 78-95.	4.4	47
13	Cyclostationary-based Multiband Envelope Spectra Extraction for bearing diagnostics: The Combined Improved Envelope Spectrum. <i>Mechanical Systems and Signal Processing</i> , 2021, 149, 107150.	4.4	47
14	Cyclostationary modeling for local fault diagnosis of planetary gear vibration signals. <i>Journal of Sound and Vibration</i> , 2020, 471, 115175.	2.1	36
15	A general anomaly detection framework for fleet-based condition monitoring of machines. <i>Mechanical Systems and Signal Processing</i> , 2020, 139, 106585.	4.4	34
16	A PEAK ENERGY CRITERION (P. E.) FOR THE SELECTION OF RESONANCE BANDS IN COMPLEX SHIFTED MORLET WAVELET (CSMW) BASED DEMODULATION OF DEFECTIVE ROLLING ELEMENT BEARINGS VIBRATION RESPONSE. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2009, 07, 387-410.	0.9	32
17	Simulation-Driven Domain Adaptation for Rolling Element Bearing Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 5760-5770.	7.2	31
18	A discrepancy analysis methodology for rolling element bearing diagnostics under variable speed conditions. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 40-61.	4.4	30

#	ARTICLE	IF	CITATIONS
19	A methodology for identifying information rich frequency bands for diagnostics of mechanical components-of-interest under time-varying operating conditions. <i>Mechanical Systems and Signal Processing</i> , 2020, 142, 106739.	4.4	30
20	An informative frequency band identification framework for gearbox fault diagnosis under time-varying operating conditions. <i>Mechanical Systems and Signal Processing</i> , 2021, 158, 107771.	4.4	29
21	Computer-vision-based research on friction vibration and coupling of frictional and torsional vibrations in water-lubricated bearing-shaft system. <i>Tribology International</i> , 2020, 150, 106336.	3.0	28
22	Vibration-Based Condition Monitoring of Wind Turbine Gearboxes Based on Cyclostationary Analysis. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	0.5	27
23	Planetary gearbox spectral modeling based on the hybrid method of dynamics and LSTM. <i>Mechanical Systems and Signal Processing</i> , 2020, 138, 106611.	4.4	27
24	A methodology using the spectral coherence and healthy historical data to perform gearbox fault diagnosis under varying operating conditions. <i>Applied Acoustics</i> , 2020, 158, 107038.	1.7	16
25	The anomalous and smoothed anomalous envelope spectra for rotating machine fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2021, 158, 107770.	4.4	16
26	Cyclostationary Analysis of Irregular Statistical Cyclicity and Extraction of Rotating Speed for Bearing Diagnostics With Speed Fluctuations. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	2.4	15
27	Nonlinear secondary noise sources for passive defect detection using ultrasound sensors. <i>Journal of Sound and Vibration</i> , 2017, 386, 283-294.	2.1	14
28	Condition Monitoring of Wind Turbine Planetary Gearboxes Under Different Operating Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	0.5	14
29	An on-line SAX and HMM-based anomaly detection and visualization tool for early disturbance discovery in a dynamic industrial process. <i>Journal of Process Control</i> , 2016, 44, 134-159.	1.7	13
30	Application of Cyclo-Nonstationary Indicators for Bearing Monitoring Under Varying Operating Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	0.5	13
31	A pre-processing methodology to enhance novel information for rotating machine diagnostics. <i>Mechanical Systems and Signal Processing</i> , 2019, 124, 541-561.	4.4	11
32	Vibration-Based Condition Monitoring of Helicopter Gearboxes Based on Cyclostationary Analysis. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	0.5	11
33	Local damage diagnosis in gearboxes using novel wavelet technology. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2010, 52, 437-442.	0.3	10
34	Least action criteria for blind separation of structural modes. <i>Mechanics and Industry</i> , 2013, 14, 397-411.	0.5	10
35	Domain Adaptation Digital Twin for Rolling Element Bearing Prognostics. <i>Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference</i> , 2020, 12, 10.	0.2	10
36	Enhanced demodulation band selection based on Operational Modal Analysis (OMA) for bearing diagnostics. <i>Mechanical Systems and Signal Processing</i> , 2022, 181, 109300.	4.4	9

#	ARTICLE	IF	CITATIONS
37	Improving the performance of univariate control charts for abnormal detection and classification. Mechanical Systems and Signal Processing, 2017, 86, 122-150.	4.4	7
38	Water-Lubricated Stern Bearing Rubber Layer Construction and Material Parameters: Effects on Frictional Vibration Based on Computer Vision. Tribology Transactions, 2021, 64, 65-81.	1.1	7
39	Combining an optimisation-based frequency band identification method with historical data for novelty detection under time-varying operating conditions. Measurement: Journal of the International Measurement Confederation, 2021, 169, 108517.	2.5	7
40	Application of the Energy Operator Separation Algorithm (EOSA) for the Instantaneous Amplitude and Frequency Calculation of Nonlinear Dynamic Systems Response. , 2009, , .		4
41	IFESIS: Instantaneous frequencies estimation via subspace invariance properties of wavelet structures. Mechanical Systems and Signal Processing, 2014, 49, 264-284.	4.4	4
42	Gearbox Fault Diagnosis Using Convolutional Neural Networks And Support Vector Machines. , 2019, , .		4
43	Rolling Element Bearing Fault Classification Using K-Means Frequency Domain Based Clustering. , 2009, , .		3
44	Assessment of Combustion Mechanical Noise Separation Techniques on a V8 Engine. , 2017, , .		3
45	Vibration Based Condition Monitoring of Planetary Gearboxes Operating Under Speed Varying Operating Conditions Based on Cyclo-non-stationary Analysis. Mechanisms and Machine Science, 2019, , 265-279.	0.3	3
46	Instantaneous Frequency Estimation in Rotating Machinery Using a Harmonic Signal Decomposition (HARD) Parametric Method. , 2009, , .		2
47	Advanced cyclostationary-based analysis for condition monitoring of complex systems. , 2018, , .		2
48	A Fleet-Wide Approach for Condition Monitoring of Similar Machines Using Time-Series Clustering. Applied Condition Monitoring, 2019, , 101-110.	0.4	2
49	Remaining Useful Life Prediction of Rolling Element Bearings Based on Unscented Kalman Filter. Applied Condition Monitoring, 2019, , 111-121.	0.4	2
50	Novel Cyclo-Nonstationary Indicators for Monitoring of Rotating Machinery Operating Under Speed and Load Varying Conditions. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	2
51	An Improved 2DCNN With Focal Loss Function for Blade Icing Detection of Wind Turbines Under Imbalanced SCADA Data. , 2021, , .		2
52	Evaluation of the Improved Envelope Spectrum via Feature Optimization-gram (IESFOgram) for bearing diagnostics under low rotating speeds. , 2021, , .		2
53	Vibration Based Condition Monitoring of Helicopter Gearboxes Based on Cyclostationary Analysis. , 2019, , .		2
54	A quantitative estimation method of ball bearing localized defect size based on vibration instantaneous energy analysis. Measurement Science and Technology, 0, , .	1.4	2

#	ARTICLE	IF	CITATIONS
55	Morphological processing of proper orthogonal modes for crack detection in beam structures. Journal of Mechanics of Materials and Structures, 2009, 4, 1063-1088.	0.4	1
56	Application of Cyclo-Non-Stationary Indicators for Bearing Monitoring Under Varying Operating Conditions. , 2017, , .		1
57	Cyclo-non-stationary Based Bearing Diagnostics of Planetary Gearboxes. Applied Condition Monitoring, 2019, , 343-352.	0.4	1
58	A Probabilistic Novelty Detection Methodology Based on the Order-Frequency Spectral Coherence. Applied Condition Monitoring, 2019, , 300-309.	0.4	1
59	Condition Monitoring of Wind Turbine Planetary Gearboxes Under Different Operating Conditions. , 2019, , .		1
60	Informative frequency band identification method using bi-frequency map clustering for fault detection in rotating machines. Vibroengineering PROCEEDIA, 2018, 19, 86-90.	0.3	1
61	Application of principal component analysis of time-frequency representation for gearbox fault detection. Vibroengineering PROCEEDIA, 2018, 19, 82-85.	0.3	1
62	Similarity-based anomaly score for fleet-based condition monitoring. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2020, 12, 9.	0.2	1
63	Virtual Sensing for Rotordynamics. , 2016, , .		0
64	Vibration Based Condition Monitoring of Wind Turbine Gearboxes Based on Cyclostationary Analysis. , 2018, , .		0
65	Implementation Assessment of a Wave Energy Converter, Based on Fully Enclosed Multi-axis Inertial Reaction Mechanisms. Discontinuity, Nonlinearity, and Complexity, 2017, 6, 445-463.	0.1	0
66	Condition Monitoring of Wind Turbine Drivetrain Bearings. , 2019, , .		0
67	Novel Cyclo-Non-Stationary Indicators for Monitoring of Rotating Machinery Operating Under Speed and Load Varying Conditions. , 2020, , .		0
68	Comparison of Blind Diagnostic Indicators for Condition Monitoring of Wind Turbine Gearbox Bearings. , 2020, , .		0