

Hyunjae Kim

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,871
citations

304743

22
h-index

265206

42
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62
all docs

62
docs citations

62
times ranked

1661
citing authors

#	ARTICLE	IF	CITATIONS
1	A Domain Adaptation with Semantic Clustering (DASC) method for fault diagnosis of rotating machinery. ISA Transactions, 2022, 120, 372-382.	5.7	32
2	Machining quality monitoring (MQM) in laser-assisted micro-milling of glass using cutting force signals: an image-based deep transfer learning. Journal of Intelligent Manufacturing, 2022, 33, 1813-1828.	7.3	13
3	Designing a phononic crystal with a defect for target frequency matching using an analytical approach. Mechanics of Advanced Materials and Structures, 2022, 29, 2454-2467.	2.6	9
4	Learning from even a weak teacher: Bridging rule-based Duval method and a deep neural network for power transformer fault diagnosis. International Journal of Electrical Power and Energy Systems, 2022, 136, 107619.	5.5	12
5	Asymmetric inter-intra domain alignments (AIIDA) method for intelligent fault diagnosis of rotating machinery. Reliability Engineering and System Safety, 2022, 218, 108186.	8.9	37
6	A health-adaptive time-scale representation (HTSR) embedded convolutional neural network for gearbox fault diagnostics. Mechanical Systems and Signal Processing, 2022, 167, 108575.	8.0	22
7	A comparative study of statistical validation metrics with consideration of variance to address type II errors in statistical model validation. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	3
8	Optimal Sensor Placement Considering Both Sensor Faults Under Uncertainty and Sensor Clustering for Vibration-Based Damage Detection. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	17
9	A deep transferable motion-adaptive fault detection method for industrial robots using a residual-based convolutional neural network. ISA Transactions, 2022, 128, 521-534.	5.7	15
10	Appropriate Smart Factory for SMEs: Concept, Application and Perspective. International Journal of Precision Engineering and Manufacturing, 2021, 22, 201-215.	2.2	34
11	A Feature Inherited Hierarchical Convolutional Neural Network (FI-HCNN) for Motor Fault Severity Estimation Using Stator Current Signals. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1253-1266.	4.9	10
12	A Phononic Crystal with Differently Configured Double Defects for Broadband Elastic Wave Energy Localization and Harvesting. Crystals, 2021, 11, 643.	2.2	24
13	Double defects-induced elastic wave coupling and energy localization in a phononic crystal. Nano Convergence, 2021, 8, 27.	12.1	25
14	Intelligent Steam Power Plant Boiler Waterwall Tube Leakage Detection via Machine Learning-Based Optimal Sensor Selection. Sensors, 2020, 20, 6356.	3.8	17
15	Model-Based Fault Detection Method for Coil Burnout in Solenoid Valves Subjected to Dynamic Thermal Loading. IEEE Access, 2020, 8, 70387-70400.	4.2	13
16	Industrial issues and solutions to statistical model improvement: a case study of an automobile steering column. Structural and Multidisciplinary Optimization, 2020, 61, 1739-1756.	3.5	14
17	An adaptive hybrid expansion method (AHM) for efficient structural topology optimization under harmonic excitation. Structural and Multidisciplinary Optimization, 2020, 61, 895-921.	3.5	12
18	Elastic wave localization and harvesting using double defect modes of a phononic crystal. Journal of Applied Physics, 2020, 127, .	2.5	57

#	ARTICLE	IF	CITATIONS
19	Optimal vibration image size determination for convolutional neural network based fluid-film rotor-bearing system diagnosis. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 1467-1474.	1.5	5
20	Sequential optimization and uncertainty propagation method for efficient optimization-based model calibration. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1355-1372.	3.5	8
21	Topology optimization for phononic band gap maximization considering a target driving frequency. <i>JMST Advances</i> , 2019, 1, 153-159.	1.9	14
22	Identifiability-based model decomposition for hierarchical calibration. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1801-1811.	3.5	4
23	A comprehensive review of artificial intelligence-based approaches for rolling element bearing PHM: shallow and deep learning. <i>JMST Advances</i> , 2019, 1, 125-151.	1.9	97
24	A robust and convex metric for unconstrained optimization in statistical model calibration—probability residual (PR). <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1171-1187.	3.5	14
25	Review of statistical model calibration and validation—“from the perspective of uncertainty structures. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1619-1644.	3.5	59
26	A New Parameter Repurposing Method for Parameter Transfer With Small Dataset and Its Application in Fault Diagnosis of Rolling Element Bearings. <i>IEEE Access</i> , 2019, 7, 46917-46930.	4.2	52
27	Uncertainty characterization under measurement errors using maximum likelihood estimation: cantilever beam end-to-end UQ test problem. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 323-333.	3.5	6
28	Toothwise Fault Identification for a Planetary Gearbox Based on a Health Data Map. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 5903-5912.	7.9	27
29	Autonomous health management for PMSM rail vehicles through demagnetization monitoring and prognosis control. <i>ISA Transactions</i> , 2018, 72, 245-255.	5.7	13
30	An efficient decoupled sensitivity analysis method for multiscale concurrent topology optimization problems. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 445-457.	3.5	15
31	An Omnidirectional Biomechanical Energy Harvesting (OBEH) Sidewalk Block for a Self-Generative Power Grid in a Smart City. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 507-517.	4.9	26
32	A Framework for Prognostics and Health Management Applications toward Smart Manufacturing Systems. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 535-554.	4.9	44
33	A comprehensive survey on topology optimization of phononic crystals. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 1315-1344.	3.5	112
34	Structural and multidisciplinary optimization — special issue editorial note. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 1365-1366.	3.5	0
35	Model-Based Fault Diagnosis of a Planetary Gear: A Novel Approach Using Transmission Error. <i>IEEE Transactions on Reliability</i> , 2016, 65, 1830-1841.	4.6	52
36	An Online-Applicable Model for Predicting Health Degradation of PEM Fuel Cells With Root Cause Analysis. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 7094-7103.	7.9	23

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37	A systematic approach for model refinement considering blind and recognized uncertainties in engineered product development. Structural and Multidisciplinary Optimization, 2016, 54, 1527-1541.	3.5	8
38	Probabilistic Lifetime Prediction of Electronic Packages Using Advanced Uncertainty Propagation Analysis and Model Calibration. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 238-248.	2.5	8
39	Hierarchical model calibration for designing piezoelectric energy harvester in the presence of variability in material properties and geometry. Structural and Multidisciplinary Optimization, 2016, 53, 161-173.	3.5	37
40	TDR-based pipe leakage detection and location using Bayesian inference. , 2015, , .		2
41	A probabilistic detectability-based sensor network design method for system health monitoring and prognostics. Journal of Intelligent Material Systems and Structures, 2015, 26, 1079-1090.	2.5	19
42	An Energy conversion model for cantilevered piezoelectric vibration energy harvesters using only measurable parameters. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 51-57.	4.9	34
43	A framework of model validation and virtual product qualification with limited experimental data based on statistical inference. Structural and Multidisciplinary Optimization, 2015, 51, 573-583.	3.5	30
44	Random field modeling with insufficient field data for probability analysis and design. Structural and Multidisciplinary Optimization, 2015, 51, 599-611.	3.5	13
45	Online thermal state estimation of high power lithium-ion battery. , 2015, , .		6
46	Physics-of-Failure, Condition Monitoring, and Prognostics of Insulated Gate Bipolar Transistor Modules: A Review. IEEE Transactions on Power Electronics, 2015, 30, 2413-2426.	7.9	400
47	A degenerated equivalent circuit model and hybrid prediction for state-of-health (SOH) of PEM fuel cell. , 2014, , .		5
48	An adaptive dimension decomposition and reselection method for reliability analysis. Structural and Multidisciplinary Optimization, 2013, 47, 423-440.	3.5	17
49	Health diagnostics of water-cooled power generator stator windings using a Directional Mahalanobis Distance (DMD). , 2013, , .		1
50	Vibration-based robust health diagnostics for mechanical failure modes of power transformers. , 2013, , .		5
51	A liquid contact indicator model for warranty abuse detection in portable electronics. , 2013, , .		0
52	Semi-supervised learning with co-training for data-driven prognostics. , 2012, , .		11
53	Copula-Based Statistical Health Grade System Against Mechanical Faults of Power Transformers. IEEE Transactions on Power Delivery, 2012, 27, 1809-1819.	4.3	91
54	Predictive carbon nanotube models using the eigenvector dimension reduction (EDR) method. Journal of Mechanical Science and Technology, 2012, 26, 1089-1097.	1.5	5

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55	A comparative study of probability estimation methods for reliability analysis. Structural and Multidisciplinary Optimization, 2012, 45, 33-52.	3.5	47
56	Adaptive-sparse polynomial chaos expansion for reliability analysis and design of complex engineering systems. Structural and Multidisciplinary Optimization, 2011, 43, 419-442.	3.5	147
57	A statistical characterization method for damping material properties and its application to structural-acoustic system design. Journal of Mechanical Science and Technology, 2011, 25, 1893-1904.	1.5	21
58	Random Field Characterization Considering Statistical Dependence for Probability Analysis and Design. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	11
59	Model improvement with experimental design for identifying error sources in a computational model. Structural and Multidisciplinary Optimization, 0, , 1.	3.5	2
60	A Noise-Robust Feature Extraction Method for Rolling Element Bearing Diagnosis: Linear Power-Normalized Cepstral Coefficients (LPNCC). International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , .	4.9	1