

Jongsoo Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7083345/publications.pdf>

Version: 2024-02-01

70
papers

786
citations

623188

14
h-index

610482

24
g-index

70
all docs

70
docs citations

70
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Physician-Customized Strategies for Reducing Outpatient Waiting Time in South Korea Using Queueing Theory and Probabilistic Metamodels. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2073.	1.2	3
2	Multiclass anomaly detection for unsupervised and semi-supervised data based on a combination of negative selection and clonal selection algorithms. <i>Applied Soft Computing Journal</i> , 2022, 122, 108838.	4.1	8
3	Instance-based transfer learning method via modified domain-adversarial neural network with influence function: Applications to design metamodeling and fault diagnosis. <i>Applied Soft Computing Journal</i> , 2022, 123, 108934.	4.1	9
4	Predictive evaluation of spectrogram-based vehicle sound quality via data augmentation and explainable artificial Intelligence: Image color adjustment with brightness and contrast. <i>Mechanical Systems and Signal Processing</i> , 2022, 179, 109363.	4.4	4
5	Deep learning-based efficient metamodeling via domain knowledge-integrated designable data augmentation with transfer learning: application to vehicle crash safety. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, .	1.7	1
6	Probabilistic optimization of engine mount to enhance vibration characteristics using first-order reliability-based target cascading. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 759-773.	1.5	9
7	Data Augmentation-Based Prediction of System Level Performance under Model and Parameter Uncertainties: Role of Designable Generative Adversarial Networks (DGAN). <i>Reliability Engineering and System Safety</i> , 2021, 206, 107316.	5.1	19
8	Neural network prediction of sound quality via domain Knowledge-Based data augmentation and Bayesian approach with small data sets. <i>Mechanical Systems and Signal Processing</i> , 2021, 157, 107713.	4.4	12
9	Multi-objective optimization in the vibration characteristics of a hydraulic steering system using a conservative and feasible response surface method. <i>Engineering Optimization</i> , 2020, 52, 465-483.	1.5	5
10	Reliability assessment of display delamination considering adhesive properties based on statistical model calibration and validation. <i>International Journal of Mechanics and Materials in Design</i> , 2020, 16, 191-206.	1.7	2
11	Multi-objective genetic algorithm in reliability-based design optimization with sequential statistical modeling: an application to design of engine mounting. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 1253-1271.	1.7	20
12	Stress-life prediction of 25°C polypropylene materials based on calibration of Zhurkov fatigue life model. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1784-1799.	1.7	5
13	Early stage data-based probabilistic wear life prediction and maintenance interval optimization of driving wheels. <i>Reliability Engineering and System Safety</i> , 2020, 197, 106791.	5.1	7
14	Sustainable Manufacturing of High-Precision, Heat-Resistant Aspherical Lenses Using Ultraviolet Illumination With Prognosis of Remaining Useful Life. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	1.3	0
15	Optimal pile design of dolphin structure considering axial compressive pressure-bending moment ratio under offshore load conditions. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2019, 233, 1141-1153.	0.3	0
16	Viscoplastic parameter identification of temperature-dependent mechanical behavior of modified polyphenylene oxide polymers. <i>Polymer Engineering and Science</i> , 2019, 59, E200.	1.5	8
17	Integrated shape-morphing and metamodel-based optimization of railway wheel web considering thermo-mechanical loads. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 315-330.	1.7	5
18	Multi-objective design of thickness and curvature of a bendable structure considering delamination and strength characteristics. <i>Journal of Computational Design and Engineering</i> , 2019, 6, 60-69.	1.5	5

#	ARTICLE	IF	CITATIONS
19	Reliability-based robust design optimization of gap size of annular nuclear fuels using kriging and inverse distance weighting methods. <i>Engineering Optimization</i> , 2018, 50, 2161-2176.	1.5	7
20	Role of multi-response principal component analysis in reliability-based robust design optimization: an application to commercial vehicle design. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 785-796.	1.7	11
21	Bayesian estimation of the lethargy coefficient for probabilistic fatigue life model. <i>Journal of Computational Design and Engineering</i> , 2018, 5, 191-197.	1.5	10
22	Determination of the best distribution and effective interval using statistical characterization of uncertain variables. <i>Journal of Computational Design and Engineering</i> , 2018, 5, 358-367.	1.5	7
23	Parameter analysis and design for the hovering thrust of a quad-rotor air vehicle using CFD and design of experiment. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 781-791.	0.7	6
24	Reliability assessment on the degradation properties of polymers under operating temperature and vibration conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2018, 232, 1782-1798.	1.1	4
25	Optimal Design of Thickness and Young's Modulus of Multi-Layered Foldable Structure Considering Bending Stress, Neutral Plane and Delamination under 2.5 mm Radius of Curvature. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 1143-1154.	1.1	20
26	Altitude and roll control of a hovering quad-rotor air vehicle using the multi-objective approximate optimization of proportional-integral differential control. <i>Engineering Optimization</i> , 2017, 49, 1704-1718.	1.5	8
27	Topologically optimized shape of CFRP front lower control ARM. <i>International Journal of Automotive Technology</i> , 2017, 18, 625-630.	0.7	8
28	Fatigue design of a cellular phone folder using regression model-based multi-objective optimization. <i>Engineering Optimization</i> , 2016, 48, 1275-1295.	1.5	1
29	An enhancement of selection and crossover operations in real-coded genetic algorithm for large-dimensionality optimization. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 237-247.	0.7	8
30	Back-propagation neural network-based approximate analysis of true stress-strain behaviors of high-strength metallic material. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 1233-1241.	0.7	14
31	Reliability Based Design of the Automotive Components considering Degradation Properties of Polymeric Materials. <i>Transactions of the Korean Society of Automotive Engineers</i> , 2016, 24, 596-604.	0.1	5
32	Interval prediction of the fatigue crack cycle using evidence theory and the Kriging meta-model. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 2315-2320.	1.1	2
33	Structural design of a level-luffing crane through trajectory optimization and strength-based size optimization. <i>Structural and Multidisciplinary Optimization</i> , 2015, 51, 515-531.	1.7	11
34	Approximate Multi-Objective Optimization of a Quadcopter through Proportional-Integral-Derivative Control. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2015, 39, 673-679.	0.1	8
35	Approximate Multi-Objective Optimization of Gap Size of PWR Annular Nuclear Fuels. <i>Journal of the Korean Society for Precision Engineering</i> , 2015, 32, 815-824.	0.1	1
36	Electrode design optimization of lithium secondary batteries to enhance adhesion and deformation capabilities. <i>Energy</i> , 2014, 75, 525-533.	4.5	19

#	ARTICLE	IF	CITATIONS
37	Approximate multi-objective optimization using conservative and feasible moving least squares method: application to automotive knuckle design. <i>Structural and Multidisciplinary Optimization</i> , 2014, 49, 851-861.	1.7	7
38	Optimal doctor blade design considering contact stress and toner properties. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 849-854.	1.1	0
39	CFD-based Thrust Analysis of Unmanned Aerial Vehicle in Hover Mode: Effects of Single Rotor Blade Shape. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2014, 38, 513-520.	0.1	8
40	Optimization of rail profile to reduce wear on curved track. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 619-625.	1.1	28
41	Estimation of submerged-arc welding design parameters using Taguchi method and fuzzy logic. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2013, 227, 532-542.	1.5	13
42	Quality engineering optimization of robot casting considering design robustness: Comparison with reliability. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 2157-2163.	1.1	2
43	Conservative multi-objective optimization considering design robustness and tolerance: a quality engineering design approach. <i>Structural and Multidisciplinary Optimization</i> , 2013, 47, 259-272.	1.7	11
44	Optimization of a railway wheel profile to minimize flange wear and surface fatigue. <i>Wear</i> , 2013, 300, 225-233.	1.5	41
45	Reduction in the nitrogen oxide and soot emissions in a diesel engine combustion system using an approximate optimization method. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2012, 226, 1707-1718.	1.1	4
46	Genetic-Algorithm-Based Controlling of Microcontact Distributions to Minimize Electrical Contact Resistance. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012, 2, 1768-1776.	1.4	6
47	Study of Reliability-Based Robust Design Optimization Using Conservative Approximate Meta-Models. <i>Journal of Ocean Engineering and Technology</i> , 2012, 26, 80-85.	0.5	2
48	Role of Conservative Moving Least Squares Methods in Reliability Based Design Optimization: A Mathematical Foundation. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	1.7	8
49	A realization of constraint feasibility in a moving least squares response surface based approximate optimization. <i>Computational Optimization and Applications</i> , 2011, 50, 163-188.	0.9	5
50	A conservative method of wavelet neural network based meta-modeling in constrained approximate optimization. <i>Computers and Structures</i> , 2011, 89, 109-126.	2.4	7
51	Reliability-based design optimization of an FPSO riser support using moving least squares response surface meta-models. <i>Ocean Engineering</i> , 2011, 38, 304-318.	1.9	36
52	Reliability-based design optimization of knuckle component using conservative method of moving least squares meta-models. <i>Probabilistic Engineering Mechanics</i> , 2011, 26, 364-379.	1.3	36
53	An implementation of new selection strategies in a genetic algorithm “population recombination and elitist refinement. <i>Engineering Optimization</i> , 2011, 43, 1367-1384.	1.5	5
54	An improvement of Kriging based sequential approximate optimization method via extended use of design of experiments. <i>Engineering Optimization</i> , 2010, 42, 1133-1149.	1.5	14

#	ARTICLE	IF	CITATIONS
55	An integrated method of particle swarm optimization and differential evolution. Journal of Mechanical Science and Technology, 2009, 23, 426-434.	0.7	27
56	A response surface based sequential approximate optimization using constraint-shifting analogy. Journal of Mechanical Science and Technology, 2009, 23, 2903-2912.	0.7	3
57	An enhancement of constraint feasibility in BPN based approximate optimization. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 2147-2160.	3.4	22
58	GA based meta-modeling of BPN architecture for constrained approximate optimization. International Journal of Solids and Structures, 2007, 44, 5980-5993.	1.3	28
59	Constrained minimization utilizing GA based pattern recognition of immune system. Journal of Mechanical Science and Technology, 2007, 21, 779-788.	0.7	0
60	Micro genetic algorithm based optimal gate positioning in injection molding design. Journal of Mechanical Science and Technology, 2007, 21, 789-798.	0.7	11
61	Derivative and GA-based methods in metamodeling of back-propagation neural networks for constrained approximate optimization. Structural and Multidisciplinary Optimization, 2007, 35, 29-40.	1.7	21
62	Approximate optimization of high-speed train nose shape for reducing micropressure wave. Structural and Multidisciplinary Optimization, 2007, 35, 79-87.	1.7	39
63	Decomposition Based Design Method Coordinated by Disciplinary Subspace Optimization. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2006, 49, 935-941.	0.3	0
64	DOE Based Robust Optimization Considering Tolerance Bands of Design Parameters. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2006, 49, 1223-1231.	0.3	7
65	A method of genetic algorithm based multiobjective optimization via cooperative coevolution. Journal of Mechanical Science and Technology, 2006, 20, 2115-2123.	0.7	8
66	Design of optical flying head for magneto-optical recording. IEEE Transactions on Magnetics, 2005, 41, 2851-2853.	1.2	6
67	Evolutionary fuzzy modelling in global approximate structural optimisation. International Journal of Vehicle Design, 2002, 28, 339.	0.1	4
68	Applications of soft computing techniques in response surface based approximate optimization. Journal of Mechanical Science and Technology, 2001, 15, 1132-1142.	0.4	2
69	Application of classifier systems in improving response surface based approximations for design optimization. Computers and Structures, 2001, 79, 333-344.	2.4	5
70	Parallel genetic algorithm implementation in multidisciplinary rotor blade design. Journal of Aircraft, 1996, 33, 962-969.	1.7	98