Liang Gao

List of Publications by Year
in descending order

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659 papers	24,255 citations	9254 74 h-index	19169 118 g-index
668 all docs	668 docs citations	668 times ranked	12048 citing authors

#	Article	IF	Citations
1	A New Convolutional Neural Network-Based Data-Driven Fault Diagnosis Method. IEEE Transactions on Industrial Electronics, 2018, 65, 5990-5998.	5.2	1,381
2	A New Deep Transfer Learning Based on Sparse Auto-Encoder for Fault Diagnosis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 136-144.	5.9	731
3	An effective genetic algorithm for the flexible job-shop scheduling problem. Expert Systems With Applications, 2011, 38, 3563-3573.	4.4	421
4	An effective hybrid particle swarm optimization algorithm for multi-objective flexible job-shop scheduling problem. Computers and Industrial Engineering, 2009, 56, 1309-1318.	3.4	405
5	An effective hybrid genetic algorithm and tabu search for flexible job shop scheduling problem. International Journal of Production Economics, 2016, 174, 93-110.	5.1	387
6	A transfer convolutional neural network for fault diagnosis based on ResNet-50. Neural Computing and Applications, 2020, 32, 6111-6124.	3.2	365
7	Energy-efficient permutation flow shop scheduling problem using a hybrid multi-objective backtracking search algorithm. Journal of Cleaner Production, 2017, 144, 228-238.	4.6	220
8	Parameter extraction of photovoltaic models using an improved teaching-learning-based optimization. Energy Conversion and Management, 2019, 186, 293-305.	4.4	211
9	Effective heuristics and metaheuristics to minimize total flowtime for the distributed permutation flowshop problem. Expert Systems With Applications, 2019, 124, 309-324.	4.4	196
10	An improved fruit fly optimization algorithm for continuous function optimization problems. Knowledge-Based Systems, 2014, 62, 69-83.	4.0	193
11	Cellular particle swarm optimization. Information Sciences, 2011, 181, 4460-4493.	4.0	169
12	Integration of process planning and schedulingâ€"A modified genetic algorithm-based approach. Computers and Operations Research, 2009, 36, 2082-2096.	2.4	164
13	Queuing search algorithm: A novel metaheuristic algorithm for solving engineering optimization problems. Applied Mathematical Modelling, 2018, 63, 464-490.	2.2	160
14	A multi-objective genetic algorithm based on immune and entropy principle for flexible job-shop scheduling problem. International Journal of Advanced Manufacturing Technology, 2010, 51, 757-767.	1.5	157
15	Imbalanced data fault diagnosis of rotating machinery using synthetic oversampling and feature learning. Journal of Manufacturing Systems, 2018, 48, 34-50.	7.6	154
16	An adaptive process planning approach of rapid prototyping and manufacturing. Robotics and Computer-Integrated Manufacturing, 2013, 29, 23-38.	6.1	148
17	A differential evolution algorithm with self-adapting strategy and control parameters. Computers and Operations Research, 2011, 38, 394-408.	2.4	147
18	A hybrid multi-objective grey wolf optimizer for dynamic scheduling in a real-world welding industry. Engineering Applications of Artificial Intelligence, 2017, 57, 61-79.	4.3	146

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19	Topology optimization for functionally graded cellular composites with metamaterials by level sets. Computer Methods in Applied Mechanics and Engineering, 2018, 328, 340-364.	3.4	141
20	Topology optimization for concurrent design of structures with multi-patch microstructures by level sets. Computer Methods in Applied Mechanics and Engineering, 2018, 331, 536-561.	3.4	139
21	An effective multi-objective discrete virus optimization algorithm for flexible job-shop scheduling problem with controllable processing times. Computers and Industrial Engineering, 2017, 104, 156-174.	3.4	132
22	An adaptive decoupling approach for reliability-based design optimization. Computers and Structures, 2013, 117, 58-66.	2.4	127
23	A general failure-pursuing sampling framework for surrogate-based reliability analysis. Reliability Engineering and System Safety, 2019, 183, 47-59.	5.1	125
24	A novel projection outline based active learning method and its combination with Kriging metamodel for hybrid reliability analysis with random and interval variables. Computer Methods in Applied Mechanics and Engineering, 2018, 341, 32-52.	3.4	124
25	A surrogate thermal modeling and parametric optimization of battery pack with air cooling for EVs. Applied Thermal Engineering, 2019, 147, 90-100.	3.0	124
26	A multi-objective cellular grey wolf optimizer for hybrid flowshop scheduling problem considering noise pollution. Applied Soft Computing Journal, 2019, 75, 728-749.	4.1	118
27	Grey wolf optimizer with cellular topological structure. Expert Systems With Applications, 2018, 107, 89-114.	4.4	114
28	Mathematical modeling and evolutionary algorithm-based approach for integrated process planning and scheduling. Computers and Operations Research, 2010, 37, 656-667.	2.4	113
29	Adaptive Differential Evolution With Sorting Crossover Rate for Continuous Optimization Problems. IEEE Transactions on Cybernetics, 2017, 47, 2742-2753.	6.2	113
30	A novel teaching-learning-based optimization algorithm for energy-efficient scheduling in hybrid flow shop. IEEE Transactions on Engineering Management, 2018, 65, 330-340.	2.4	113
31	An efficient Kriging-based subset simulation method for hybrid reliability analysis under random and interval variables with small failure probability. Structural and Multidisciplinary Optimization, 2019, 59, 2077-2092.	1.7	112
32	A semi-supervised convolutional neural network-based method for steel surface defect recognition. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101825.	6.1	112
33	A cloud-based approach for WEEE remanufacturing. CIRP Annals - Manufacturing Technology, 2014, 63, 409-412.	1.7	110
34	A GEP-based reactive scheduling policies constructing approach for dynamic flexible job shop scheduling problem with job release dates. Journal of Intelligent Manufacturing, 2013, 24, 763-774.	4.4	109
35	Topology optimization for auxetic metamaterials based on isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 211-236.	3.4	107
36	A system active learning Kriging method for system reliability-based design optimization with a multiple response model. Reliability Engineering and System Safety, 2020, 199, 106935.	5.1	107

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37	A local adaptive sampling method for reliability-based design optimization using Kriging model. Structural and Multidisciplinary Optimization, 2014, 49, 401-416.	1.7	106
38	Review on flexible job shop scheduling. IET Collaborative Intelligent Manufacturing, 2019, 1, 67-77.	1.9	106
39	Topology optimization for multiscale design of porous composites with multi-domain microstructures. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 451-476.	3.4	106
40	An effective multi-objective discrete grey wolf optimizer for a real-world scheduling problem in welding production. Advances in Engineering Software, 2016, 99, 161-176.	1.8	105
41	An active learning reliability method combining Kriging constructed with exploration and exploitation of failure region and subset simulation. Reliability Engineering and System Safety, 2019, 188, 90-102.	5.1	104
42	A local Kriging approximation method using MPP for reliability-based design optimization. Computers and Structures, 2016, 162, 102-115.	2.4	103
43	Effective metaheuristics for scheduling a hybrid flowshop with sequence-dependent setup times. Applied Mathematics and Computation, 2017, 303, 89-112.	1.4	103
44	Effective constructive heuristics and meta-heuristics for the distributed assembly permutation flowshop scheduling problem. Applied Soft Computing Journal, 2019, 81, 105492.	4.1	103
45	A combined projection-outline-based active learning Kriging and adaptive importance sampling method for hybrid reliability analysis with small failure probabilities. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 13-33.	3.4	103
46	An effective teaching-learning-based cuckoo search algorithm for parameter optimization problems in structure designing and machining processes. Applied Soft Computing Journal, 2015, 36, 349-356.	4.1	102
47	A Three-Stage Multiobjective Approach Based on Decomposition for an Energy-Efficient Hybrid Flow Shop Scheduling Problem. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4984-4999.	5.9	100
48	Application of game theory based hybrid algorithm for multi-objective integrated process planning and scheduling. Expert Systems With Applications, 2012, 39, 288-297.	4.4	98
49	A novel mathematical model and multi-objective method for the low-carbon flexible job shop scheduling problem. Sustainable Computing: Informatics and Systems, 2017, 13, 15-30.	1.6	98
50	Efficient Generalized Surrogate-Assisted Evolutionary Algorithm for High-Dimensional Expensive Problems. IEEE Transactions on Evolutionary Computation, 2020, 24, 365-379.	7.5	96
51	Real-time estimation error-guided active learning Kriging method for time-dependent reliability analysis. Applied Mathematical Modelling, 2020, 77, 82-98.	2.2	96
52	An effective iterated greedy method for the distributed permutation flowshop scheduling problem with sequence-dependent setup times. Swarm and Evolutionary Computation, 2020, 59, 100742.	4.5	95
53	An effective hybrid discrete differential evolution algorithm for the flow shop scheduling with intermediate buffers. Information Sciences, 2011, 181, 668-685.	4.0	94
54	A hybrid genetic algorithm and tabu search for a multi-objective dynamic job shop scheduling problem. International Journal of Production Research, 2013, 51, 3516-3531.	4.9	94

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55	A differential evolution algorithm with intersect mutation operator. Applied Soft Computing Journal, 2013, 13, 390-401.	4.1	93
56	An effective modified migrating birds optimization for hybrid flowshop scheduling problem with lot streaming. Applied Soft Computing Journal, 2017, 52, 14-27.	4.1	92
57	Topological shape optimization of 3D micro-structured materials using energy-based homogenization method. Advances in Engineering Software, 2018, 116, 89-102.	1.8	92
58	An agent-based approach for integrated process planning and scheduling. Expert Systems With Applications, 2010, 37, 1256-1264.	4.4	91
59	Selective disassembly planning for waste electrical and electronic equipment with case studies on liquid crystaldisplays. Robotics and Computer-Integrated Manufacturing, 2013, 29, 248-260.	6.1	90
60	Concurrent topology optimization of multiscale composite structures in Matlab. Structural and Multidisciplinary Optimization, 2019, 60, 2621-2651.	1.7	90
61	An Effective Hybrid Genetic Algorithm and Variable Neighborhood Search for Integrated Process Planning and Scheduling in a Packaging Machine Workshop. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1933-1945.	5.9	90
62	An effective hybrid collaborative algorithm for energy-efficient distributed permutation flow-shop inverse scheduling. Future Generation Computer Systems, 2022, 128, 521-537.	4.9	90
63	A multi-objective discrete flower pollination algorithm for stochastic two-sided partial disassembly line balancing problem. Computers and Industrial Engineering, 2019, 130, 634-649.	3.4	89
64	Effective constructive heuristics and discrete bee colony optimization for distributed flowshop with setup times. Engineering Applications of Artificial Intelligence, 2021, 97, 104016.	4.3	89
65	A New Two-Level Hierarchical Diagnosis Network Based on Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 330-338.	2.4	87
66	An Effective Multiobjective Algorithm for Energy-Efficient Scheduling in a Real-Life Welding Shop. IEEE Transactions on Industrial Informatics, 2018, 14, 5400-5409.	7.2	86
67	Multiâ€objective design optimization for miniâ€channel cooling battery thermal management system in an electric vehicle. International Journal of Energy Research, 2019, 43, 3668-3680.	2.2	85
68	Impact of advanced manufacturing on sustainability: An overview of the special volume on advanced manufacturing for sustainability and low fossil carbon emissions. Journal of Cleaner Production, 2017, 161, 69-74.	4.6	82
69	Multi-objective optimization algorithms for flow shop scheduling problem: a review and prospects. International Journal of Advanced Manufacturing Technology, 2011, 55, 723-739.	1.5	81
70	An efficient memetic algorithm for solving the job shop scheduling problem. Computers and Industrial Engineering, 2011, 60, 699-705.	3.4	81
71	A hybrid particle swarm optimization with estimation of distribution algorithm for solving permutation flowshop scheduling problem. Expert Systems With Applications, 2011, 38, 4348-4360.	4.4	80
72	An effective hybrid algorithm for integrated process planning and scheduling. International Journal of Production Economics, 2010, 126, 289-298.	5.1	79

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73	An Improved Artificial Bee Colony algorithm for real-world hybrid flowshop rescheduling in Steelmaking-refining-Continuous Casting process. Computers and Industrial Engineering, 2018, 122, 235-250.	3.4	78
74	Maximizing natural frequencies of inhomogeneous cellular structures by Kriging-assisted multiscale topology optimization. Computers and Structures, 2020, 230, 106197.	2.4	78
75	A Surrogate-Assisted Multiswarm Optimization Algorithm for High-Dimensional Computationally Expensive Problems. IEEE Transactions on Cybernetics, 2021, 51, 1390-1402.	6.2	78
76	A review on Integrated Process Planning and Scheduling. International Journal of Manufacturing Research, 2010, 5, 161.	0.1	77
77	Modeling and optimization of multi-objective partial disassembly line balancing problem considering hazard and profit. Journal of Cleaner Production, 2019, 211, 115-133.	4.6	77
78	Energy-Efficient Scheduling of Distributed Flow Shop With Heterogeneous Factories: A Real-World Case From Automobile Industry in China. IEEE Transactions on Industrial Informatics, 2021, 17, 6687-6696.	7.2	77
79	Application of an efficient modified particle swarm optimization algorithm for process planning. International Journal of Advanced Manufacturing Technology, 2013, 67, 1355-1369.	1.5	76
80	Multiscale concurrent topology optimization for cellular structures with multiple microstructures based on ordered SIMP interpolation. Computational Materials Science, 2018, 155, 74-91.	1.4	75
81	A new subset based deep feature learning method for intelligent fault diagnosis of bearing. Expert Systems With Applications, 2018, 110, 125-142.	4.4	74
82	A genetic simulated annealing algorithm for parallel partial disassembly line balancing problem. Applied Soft Computing Journal, 2021, 107, 107404.	4.1	74
83	Energy-efficient distributed permutation flow shop scheduling problem using a multi-objective whale swarm algorithm. Swarm and Evolutionary Computation, 2020, 57, 100716.	4.5	74
84	Integrated process planning and scheduling using an imperialist competitive algorithm. International Journal of Production Research, 2012, 50, 4326-4343.	4.9	73
85	An important boundary sampling method for reliability-based design optimization using kriging model. Structural and Multidisciplinary Optimization, 2015, 52, 55-70.	1.7	73
86	A hybrid backtracking search algorithm for permutation flow-shop scheduling problem. Computers and Industrial Engineering, 2015, 85, 437-446.	3.4	72
87	A shuffled multi-swarm micro-migrating birds optimizer for a multi-resource-constrained flexible job shop scheduling problem. Information Sciences, 2016, 372, 655-676.	4.0	72
88	Integrated design of cellular composites using a level-set topology optimization method. Computer Methods in Applied Mechanics and Engineering, 2016, 309, 453-475.	3.4	72
89	A multiobjective evolutionary algorithm based on decomposition for hybrid flowshop green scheduling problem. Computers and Industrial Engineering, 2019, 136, 325-344.	3.4	72
90	A Systematic Literature Review on Particle Swarm Optimization Techniques for Medical Diseases Detection. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-10.	0.7	72

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91	An effective shuffled frog-leaping algorithm for lot-streaming flow shop scheduling problem. International Journal of Advanced Manufacturing Technology, 2011, 52, 699-713.	1.5	71
92	An optimal shifting vector approach for efficient probabilistic design. Structural and Multidisciplinary Optimization, 2013, 47, 905-920.	1.7	71
93	An effective multi-start iterated greedy algorithm to minimize makespan for the distributed permutation flowshop scheduling problem with preventive maintenance. Expert Systems With Applications, 2021, 169, 114495.	4.4	71
94	An Effective Cooperative Co-Evolutionary Algorithm for Distributed Flowshop Group Scheduling Problems. IEEE Transactions on Cybernetics, 2022, 52, 5999-6012.	6.2	71
95	Energy-efficient multi-pass turning operation using multi-objective backtracking search algorithm. Journal of Cleaner Production, 2016, 137, 1516-1531.	4.6	70
96	A multi-start variable neighbourhood descent algorithm for hybrid flowshop rescheduling. Swarm and Evolutionary Computation, 2019, 45, 92-112.	4.5	70
97	Disassembly sequence planning using a Simplified Teachingâ€“Learning-Based Optimization algorithm. Advanced Engineering Informatics, 2014, 28, 518-527.	4.0	69
98	Surrogate-guided differential evolution algorithm for high dimensional expensive problems. Swarm and Evolutionary Computation, 2019, 48, 288-311.	4.5	69
99	Topology-optimized lattice structures with simultaneously high stiffness and light weight fabricated by selective laser melting: Design, manufacturing and characterization. Journal of Manufacturing Processes, 2020, 56, 1166-1177.	2.8	69
100	An improved artificial bee colony algorithm for distributed heterogeneous hybrid flowshop scheduling problem with sequence-dependent setup times. Computers and Industrial Engineering, 2020, 147, 106638.	3.4	69
101	Stressâ€based multiâ€material topology optimization of compliant mechanisms. International Journal for Numerical Methods in Engineering, 2018, 113, 1021-1044.	1.5	68
102	A chaotic harmony search algorithm for the flow shop scheduling problem with limited buffers. Applied Soft Computing Journal, 2011, 11, 5270-5280.	4.1	67
103	Backtracking Search Algorithm with three constraint handling methods for constrained optimization problems. Expert Systems With Applications, 2015, 42, 7831-7845.	4.4	67
104	Energy conservation in manufacturing operations: modelling the milling process by a new complexity-based evolutionary approach. Journal of Cleaner Production, 2015, 108, 34-45.	4.6	67
105	An improved adaptive differential evolution algorithm for continuous optimization. Expert Systems With Applications, 2016, 44, 1-12.	4.4	67
106	Design of shell-infill structures by a multiscale level set topology optimization method. Computers and Structures, 2019, 212, 162-172.	2.4	67
107	An improved iterated greedy algorithm for the distributed assembly permutation flowshop scheduling problem. Computers and Industrial Engineering, 2021, 152, 107021.	3.4	67
108	A Review on Recent Advances in Vision-based Defect Recognition towards Industrial Intelligence. Journal of Manufacturing Systems, 2022, 62, 753-766.	7.6	67

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109	A New Reinforcement Learning Based Learning Rate Scheduler for Convolutional Neural Network in Fault Classification. IEEE Transactions on Industrial Electronics, 2021, 68, 12890-12900.	5.2	67
110	Multiscale topology optimization for minimizing frequency responses of cellular composites with connectable graded microstructures. Mechanical Systems and Signal Processing, 2020, 135, 106369.	4.4	66
111	An adaptive hybrid single-loop method for reliability-based design optimization using iterative control strategy. Structural and Multidisciplinary Optimization, 2017, 56, 1271-1286.	1.7	65
112	Isogeometric topology optimization for continuum structures using density distribution function. International Journal for Numerical Methods in Engineering, 2019, 119, 991-1017.	1.5	64
113	Energy-efficient distributed heterogeneous welding flow shop scheduling problem using a modified MOEA/D. Swarm and Evolutionary Computation, 2021, 62, 100858.	4.5	64
114	Robustly printable freeform thermal metamaterials. Nature Communications, 2021, 12, 7228.	5.8	64
115	Adaptive Fog Configuration for the Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 4656-4664.	7.2	63
116	A multi-objective approach to welding shop scheduling for makespan, noise pollution and energy consumption. Journal of Cleaner Production, 2018, 196, 773-787.	4.6	63
117	A Comprehensive Review of Isogeometric Topology Optimization: Methods, Applications and Prospects. Chinese Journal of Mechanical Engineering (English Edition), 2020, 33, .	1.9	63
118	A hybrid variable-fidelity global approximation modelling method combining tuned radial basis function base and kriging correction. Journal of Engineering Design, 2013, 24, 604-622.	1.1	62
119	A new differential evolution algorithm with a hybrid mutation operator and self-adapting control parameters for global optimization problems. Applied Intelligence, 2015, 42, 642-660.	3.3	62
120	An active learning genetic algorithm for integrated process planning and scheduling. Expert Systems With Applications, 2012, 39, 6683-6691.	4.4	61
121	A design framework for gradually stiffer mechanical metamaterial induced by negative Poisson's ratio property. Materials and Design, 2020, 192, 108751.	3.3	61
122	A discrete artificial bee colony algorithm for distributed hybrid flowshop scheduling problem with sequence-dependent setup times. International Journal of Production Research, 2021, 59, 3880-3899.	4.9	60
123	Probability and interval hybrid reliability analysis based on adaptive local approximation of projection outlines using support vector machine. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 991-1009.	6.3	59
124	Multi-objective optimal design of hybrid renewable energy system under multiple scenarios. Renewable Energy, 2020, 151, 226-237.	4.3	59
125	Address business crisis caused by COVIDâ€19 with collaborative intelligent manufacturing technologies. IET Collaborative Intelligent Manufacturing, 2020, 2, 96-99.	1.9	59
126	An active failure-pursuing Kriging modeling method for time-dependent reliability analysis. Mechanical Systems and Signal Processing, 2019, 129, 112-129.	4.4	58

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127	A novel robotic grasp detection method based on region proposal networks. Robotics and Computer-Integrated Manufacturing, 2020, 65, 101963.	6.1	57
128	Design of graded lattice sandwich structures by multiscale topology optimization. Computer Methods in Applied Mechanics and Engineering, 2021, 384, 113949.	3.4	57
129	A Comprehensive Approach for the Clustering of Similar-Performance Cells for the Design of a Lithium-Ion Battery Module for Electric Vehicles. Engineering, 2019, 5, 795-802.	3.2	56
130	An effective Iterated Greedy algorithm for the distributed permutation flowshop scheduling with due windows. Applied Soft Computing Journal, 2020, 96, 106629.	4.1	56
131	A Pareto-based collaborative multi-objective optimization algorithm for energy-efficient scheduling of distributed permutation flow-shop with limited buffers. Robotics and Computer-Integrated Manufacturing, 2022, 74, 102277.	6.1	56
132	Evolving scheduling rules with gene expression programming for dynamic single-machine scheduling problems. International Journal of Advanced Manufacturing Technology, 2010, 50, 729-747.	1.5	55
133	An effective discrete artificial bee colony algorithm for multi-AGVs dispatching problem in a matrix manufacturing workshop. Expert Systems With Applications, 2020, 161, 113675.	4.4	55
134	Application of memetic algorithm in assembly sequence planning. International Journal of Advanced Manufacturing Technology, 2010, 49, 1175-1184.	1.5	54
135	High resolution polarimeter-interferometer system for fast equilibrium dynamics and MHD instability studies on Joint-TEXT tokamak (invited). Review of Scientific Instruments, 2014, 85, 11D303.	0.6	54
136	Ensemble of surrogates assisted particle swarm optimization of medium scale expensive problems. Applied Soft Computing Journal, 2019, 74, 291-305.	4.1	54
137	Intelligent fault diagnosis of rotating machinery using a new ensemble deep auto-encoder method. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107232.	2.5	54
138	Topological design of sandwich structures with graded cellular cores by multiscale optimization. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112749.	3.4	54
139	A Fast Chargingâ€“Cooling Coupled Scheduling Method for a Liquid Cooling-Based Thermal Management System for Lithium-Ion Batteries. Engineering, 2021, 7, 1165-1176.	3.2	54
140	Surrogate based multi-objective design optimization of lithium-ion battery air-cooled system in electric vehicles. Journal of Energy Storage, 2020, 31, 101645.	3.9	54
141	Optimization of process planning with various flexibilities using an imperialist competitive algorithm. International Journal of Advanced Manufacturing Technology, 2012, 59, 815-828.	1.5	53
142	A Multilevel Information Fusion-Based Deep Learning Method for Vision-Based Defect Recognition. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3980-3991.	2.4	53
143	Sustainable scheduling of distributed permutation flow-shop with non-identical factory using a knowledge-based multi-objective memetic optimization algorithm. Swarm and Evolutionary Computation, 2021, 60, 100803.	4.5	53
144	A level set method for topological shape optimization of 3D structures with extrusion constraints. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 615-635.	3.4	52

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145	An efficient surrogate-assisted particle swarm optimization algorithm for high-dimensional expensive problems. Knowledge-Based Systems, 2019, 184, 104901.	4.0	52
146	A new ensemble residual convolutional neural network for remaining useful life estimation. Mathematical Biosciences and Engineering, 2019, 16, 862-880.	1.0	50
147	A NURBS-based Multi-Material Interpolation (N-MMI) for isogeometric topology optimization of structures. Applied Mathematical Modelling, 2020, 81, 818-843.	2.2	49
148	A Generative Adversarial Network Based Deep Learning Method for Low-Quality Defect Image Reconstruction and Recognition. IEEE Transactions on Industrial Informatics, 2021, 17, 3231-3240.	7.2	49
149	A hybrid algorithm based on a new neighborhood structure evaluation method for job shop scheduling problem. Computers and Industrial Engineering, 2015, 88, 417-429.	3.4	48
150	An application of evolutionary system identification algorithm in modelling of energy production system. Measurement: Journal of the International Measurement Confederation, 2018, 114, 122-131.	2.5	48
151	Parallel chaotic local search enhanced harmony search algorithm for engineering design optimization. Journal of Intelligent Manufacturing, 2019, 30, 405-428.	4.4	48
152	A probability and integrated learning based classification algorithm for high-level human emotion recognition problems. Measurement: Journal of the International Measurement Confederation, 2020, 150, 107049.	2.5	48
153	A hybrid genetic algorithm with variable neighborhood search for dynamic integrated process planning and scheduling. Computers and Industrial Engineering, 2016, 102, 99-112.	3.4	47
154	Partial disassembly line balancing for energy consumption and profit under uncertainty. Robotics and Computer-Integrated Manufacturing, 2019, 59, 235-251.	6.1	47
155	Surrogate-assisted classification-collaboration differential evolution for expensive constrained optimization problems. Information Sciences, 2020, 508, 50-63.	4.0	47
156	Full-scale topology optimization for fiber-reinforced structures with continuous fiber paths. Computer Methods in Applied Mechanics and Engineering, 2021, 377, 113668.	3.4	47
157	A new methodology for multi-objective multidisciplinary design optimization problems based on game theory. Expert Systems With Applications, 2015, 42, 1602-1612.	4.4	46
158	Dynamic rescheduling in FMS that is simultaneously considering energy consumption and schedule efficiency. International Journal of Advanced Manufacturing Technology, 2016, 87, 1387-1399.	1.5	46
159	Ensemble deep contractive auto-encoders for intelligent fault diagnosis of machines under noisy environment. Knowledge-Based Systems, 2020, 196, 105764.	4.0	46
160	A holonic architecture of the concurrent integrated process planning system. Journal of Materials Processing Technology, 2003, 139, 267-272.	3.1	45
161	An improved electromagnetism-like mechanism algorithm for constrained optimization. Expert Systems With Applications, 2013, 40, 5621-5634.	4.4	45
162	An effective cellular particle swarm optimization for parameters optimization of a multi-pass milling process. Applied Soft Computing Journal, 2012, 12, 3490-3499.	4.1	44

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163	A finite element based data analytics approach for modeling turning process of Inconel 718 alloys. Journal of Cleaner Production, 2016, 137, 1619-1627.	4.6	44
164	Spatial-varying multi-phase infill design using density-based topology optimization. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113354.	3.4	44
165	A Modified Genetic Algorithm With New Encoding and Decoding Methods for Integrated Process Planning and Scheduling Problem. IEEE Transactions on Cybernetics, 2021, 51, 4429-4438.	6.2	44
166	Robust topology optimization of thermoelastic metamaterials considering hybrid uncertainties of material property. Composite Structures, 2020, 248, 112477.	3.1	44
167	A fast surrogate-assisted particle swarm optimization algorithm for computationally expensive problems. Applied Soft Computing Journal, 2020, 92, 106303.	4.1	44
168	A hybrid and adaptive tool-path generation approach of rapid prototyping and manufacturing for biomedical models. Computers in Industry, 2013, 64, 336-349.	5.7	43
169	Metamodeling for high dimensional design problems by multi-fidelity simulations. Structural and Multidisciplinary Optimization, 2017, 56, 151-166.	1.7	43
170	Energy-efficient job shop scheduling problem with variable spindle speed using a novel multi-objective algorithm. Advances in Mechanical Engineering, 2017, 9, 168781401769595.	0.8	43
171	An empirical model design for evaluation and estimation of carbonation depth in concrete. Measurement: Journal of the International Measurement Confederation, 2018, 124, 205-210.	2.5	43
172	Particle swarm optimization hybridized with genetic algorithm for uncertain integrated process planning and scheduling with interval processing time. Computers and Industrial Engineering, 2019, 135, 1036-1046.	3.4	43
173	Iterative reliable design space approach for efficient reliability-based design optimization. Engineering With Computers, 2020, 36, 151-169.	3.5	43
174	Optimization of flexible process planning by genetic programming. International Journal of Advanced Manufacturing Technology, 2008, 38, 143-153.	1.5	42
175	A modified colonial competitive algorithm for the mixed-model U-line balancing and sequencing problem. International Journal of Production Research, 2012, 50, 5117-5131.	4.9	42
176	Honey bees mating optimization algorithm for process planning problem. Journal of Intelligent Manufacturing, 2014, 25, 459-472.	4.4	42
177	Concurrent topology optimization for cellular structures with nonuniform microstructures based on the kriging metamodel. Structural and Multidisciplinary Optimization, 2019, 59, 1273-1299.	1.7	42
178	Topology optimization of multi-material structures with graded interfaces. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 1096-1117.	3.4	42
179	A discrete artificial bee colony algorithm for the distributed heterogeneous no-wait flowshop scheduling problem. Applied Soft Computing Journal, 2021, 100, 106946.	4.1	42
180	Recent Advancements in Battery Management System for Liâ€Ion Batteries of Electric Vehicles: Future Role of Digital Twin, Cyberâ€Physical Systems, Battery Swapping Technology, and Nondestructive Testing. Energy Technology, 2021, 9, 2000984.	1.8	42

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181	Multi-objective design optimization of battery thermal management system for electric vehicles. Applied Thermal Engineering, 2021, 196, 117235.	3.0	42
182	A new multiscale topology optimization method for multiphase composite structures of frequency response with level sets. Computer Methods in Applied Mechanics and Engineering, 2019, 356, 116-144.	3.4	41
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