

Zikai Zhang

List of Publications by Year in descending order

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36
papers

972
citations

361296
20
h-index

454834
30
g-index

36
all docs

36
docs citations

36
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimizing energy consumption and cycle time in two-sided robotic assembly line systems using restarted simulated annealing algorithm. <i>Journal of Cleaner Production</i> , 2016, 135, 508-522.	4.6	102
2	Mathematical modeling and evolutionary generation of rule sets for energy-efficient flexible job shops. <i>Energy</i> , 2017, 138, 210-227.	4.5	70
3	Ergonomic risk and cycle time minimization for the U-shaped worker assignment assembly line balancing problem: A multi-objective approach. <i>Computers and Operations Research</i> , 2020, 118, 104905.	2.4	59
4	Robust optimization and stochastic programming approaches for medium-term production scheduling of a large-scale steelmaking continuous casting process under demand uncertainty. <i>Computers and Chemical Engineering</i> , 2014, 66, 165-185.	2.0	51
5	Production Scheduling of a Large-Scale Steelmaking Continuous Casting Process via Unit-Specific Event-Based Continuous-Time Models: Short-Term and Medium-Term Scheduling. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7300-7319.	1.8	48
6	Modelling and optimisation of energy-efficient U-shaped robotic assembly line balancing problems. <i>International Journal of Production Research</i> , 2019, 57, 5520-5537.	4.9	48
7	Mathematical model and grey wolf optimization for low-carbon and low-noise U-shaped robotic assembly line balancing problem. <i>Journal of Cleaner Production</i> , 2019, 215, 744-756.	4.6	42
8	Iterated local search method and mathematical model for sequence-dependent U-shaped disassembly line balancing problem. <i>Computers and Industrial Engineering</i> , 2019, 137, 106056.	3.4	38
9	Two-sided assembly line balancing problem of type I: Improvements, a simple algorithm and a comprehensive study. <i>Computers and Operations Research</i> , 2017, 79, 78-93.	2.4	36
10	Multi-objective migrating bird optimization algorithm for cost-oriented assembly line balancing problem with collaborative robots. <i>Neural Computing and Applications</i> , 2021, 33, 8575-8596.	3.2	36
11	Branch, bound and remember algorithm for U-shaped assembly line balancing problem. <i>Computers and Industrial Engineering</i> , 2018, 124, 24-35.	3.4	35
12	Enhanced migrating birds optimization algorithm for U-shaped assembly line balancing problems with workers assignment. <i>Neural Computing and Applications</i> , 2019, 31, 7501-7515.	3.2	35
13	Rules-based heuristic approach for the U-shaped assembly line balancing problem. <i>Applied Mathematical Modelling</i> , 2017, 48, 423-439.	2.2	33
14	Maintenance costs and makespan minimization for assembly permutation flow shop scheduling by considering preventive and corrective maintenance. <i>Journal of Manufacturing Systems</i> , 2021, 59, 549-564.	7.6	30
15	Multi-objective Q-learning-based hyper-heuristic with Bi-criteria selection for energy-aware mixed shop scheduling. <i>Swarm and Evolutionary Computation</i> , 2022, 69, 100985.	4.5	30
16	A comparative study of exact methods for the simple assembly line balancing problem. <i>Soft Computing</i> , 2020, 24, 11459-11475.	2.1	29
17	Model and metaheuristics for robotic two-sided assembly line balancing problems with setup times. <i>Swarm and Evolutionary Computation</i> , 2019, 50, 100567.	4.5	26
18	An improved multi-objective multifactorial evolutionary algorithm for assembly line balancing problem considering regular production and preventive maintenance scenarios. <i>Swarm and Evolutionary Computation</i> , 2022, 68, 101021.	4.5	24

#	ARTICLE	IF	CITATIONS
19	Branch, bound and remember algorithm for two-sided assembly line balancing problem. <i>European Journal of Operational Research</i> , 2020, 284, 896-905.	3.5	22
20	Solving multi-objective model of assembly line balancing considering preventive maintenance scenarios using heuristic and grey wolf optimizer algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 100, 104183.	4.3	22
21	Multi-manned assembly line balancing with time and space constraints: A MILP model and memetic ant colony system. <i>Computers and Industrial Engineering</i> , 2020, 150, 106862.	3.4	17
22	Integrating flexible preventive maintenance activities into two-stage assembly flow shop scheduling with multiple assembly machines. <i>Computers and Industrial Engineering</i> , 2021, 159, 107493.	3.4	16
23	An enhanced multi-objective JAYA algorithm for U-shaped assembly line balancing considering preventive maintenance scenarios. <i>International Journal of Production Research</i> , 2021, 59, 6146-6165.	4.9	15
24	An Improved Lexicographical Whale Optimization Algorithm for the Type-II Assembly Line Balancing Problem Considering Preventive Maintenance Scenarios. <i>IEEE Access</i> , 2020, 8, 30421-30435.	2.6	15
25	A robust MILP and gene expression programming based on heuristic rules for mixed-model multi-manned assembly line balancing. <i>Applied Soft Computing Journal</i> , 2021, 109, 107513.	4.1	14
26	An Improved Migrating Birds Optimization Algorithm for a Hybrid Flow Shop Scheduling within Steel Plants. <i>Mathematics</i> , 2020, 8, 1661.	1.1	11
27	Integrating preventive maintenance to two-stage assembly flow shop scheduling: MILP model, constructive heuristics and meta-heuristics. <i>Flexible Services and Manufacturing Journal</i> , 2022, 34, 156-203.	1.9	11
28	An Efficient Augmented Lagrange Multiplier Method for Steelmaking and Continuous Casting Production Scheduling. <i>Chemical Engineering Research and Design</i> , 2021, 168, 169-192.	2.7	11
29	An improved preference-based variable neighborhood search algorithm with ar-dominance for assembly line balancing considering preventive maintenance scenarios. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 109, 104593.	4.3	11
30	Local search methods for type I mixed-model two-sided assembly line balancing problems. <i>Memetic Computing</i> , 2021, 13, 111-130.	2.7	9
31	Energy-Efficient Integration Optimization of Production Scheduling and Ladle Dispatching in Steelmaking Plants. <i>IEEE Access</i> , 2020, 8, 176170-176187.	2.6	7
32	Data mining for fast and accurate makespan estimation in machining workshops. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 483-500.	4.4	7
33	Integration of balancing and preventive maintenance in straight and U-shaped resource-dependent assembly lines: MILP model and memetic algorithm. <i>Applied Soft Computing Journal</i> , 2021, 113, 107773.	4.1	4
34	Multi-manned assembly line balancing with sequence-dependent set-up times using an enhanced migrating birds optimization algorithm. <i>Engineering Optimization</i> , 2023, 55, 1243-1262.	1.5	4
35	Data-Driven Dispatching Rules Mining and Real-Time Decision-Making Methodology in Intelligent Manufacturing Shop Floor with Uncertainty. <i>Sensors</i> , 2021, 21, 4836.	2.1	3
36	Models and two-phase bee algorithms for multi-objective U-shaped disassembly line balancing problem. <i>Optimization and Engineering</i> , 0, , 1.	1.3	1