

Leyuan Shi

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

1,582
citations

361413

20
h-index

330143

37
g-index

75
all docs

75
docs citations

75
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical modeling and heuristic approaches for a multi-stage car sequencing problem. Computers and Industrial Engineering, 2021, 152, 107008.	6.3	14
2	A new solution approach for flow shop scheduling with an exponential time-dependent learning effect. , 2019, , .		0
3	Simulation Optimization on Complex Job Shop Scheduling with Non-Identical Job Sizes. Asia-Pacific Journal of Operational Research, 2019, 36, 1950026.	1.3	2
4	Integrated optimisation on flow-shop production with cutting stock. International Journal of Production Research, 2019, 57, 5996-6012.	7.5	9
5	A peak-over-threshold search method for global optimization. Automatica, 2018, 89, 83-91.	5.0	5
6	A Sequential Budget Allocation Framework for Simulation Optimization. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1185-1194.	5.2	13
7	Minimizing Completion Time for Order Scheduling: Formulation and Heuristic Algorithm. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1558-1569.	5.2	24
8	A machine learning-based nested partitions framework for angle selection in radiotherapy. Optimization Methods and Software, 2016, 31, 1169-1188.	2.4	0
9	Predictive Modeling in Radiation Oncology. , 2016, , 189-219.		0
10	Enhancing feasibility determination with kriging metamodels. , 2016, , .		1
11	Simulation optimization for the MRO scheduling problem based on multi-fidelity models. , 2016, , .		0
12	Treatment Planning for Volumetric-Modulated Arc Therapy: Model and Heuristic Algorithms. IEEE Transactions on Automation Science and Engineering, 2015, 12, 116-126.	5.2	8
13	Dynamic emergency logistics planning: models and heuristic algorithm. Optimization Letters, 2015, 9, 1533-1552.	1.6	32
14	Nested Partitions for Large-Scale Optimization in Supply Chain Management. Industrial and Systems Engineering, 2015, , 123-150.	0.0	0
15	An Optimal Sample Allocation Strategy for Partition-Based Random Search. IEEE Transactions on Automation Science and Engineering, 2014, 11, 177-186.	5.2	50
16	Data mining-based dispatching system for solving the local pickup and delivery problem. Annals of Operations Research, 2013, 203, 351-370.	4.1	17
17	A two-stage approach for VMAT treatment plan optimization. , 2013, , .		3
18	Mixed integer programming in production planning with backlogging and setup carryover: modeling and algorithms. Discrete Event Dynamic Systems: Theory and Applications, 2013, 23, 211-239.	1.5	18

#	ARTICLE	IF	CITATIONS
19	A linearized model and nested-partitions heuristics for VMAT radiation treatment planning optimization. , 2013, , .		2
20	Nested Partitions. , 2013, , 203-226.		0
21	A hybrid nested partitions algorithm for scheduling flexible resource in flow shop problem. International Journal of Production Research, 2012, 50, 2555-2569.	7.5	6
22	Improving discrete event simulation in the emergency department with innovative and robust input analysis tools. , 2012, , .		2
23	On the equivalence of strong formulations for capacitated multi-level lot sizing problems with setup times. Journal of Global Optimization, 2012, 53, 615-639.	1.8	15
24	An MIP-based interval heuristic for the capacitated multi-level lot-sizing problem with setup times. Annals of Operations Research, 2012, 196, 635-650.	4.1	23
25	An Enhanced Nested Partitions Algorithm Using Solution Value Prediction. IEEE Transactions on Automation Science and Engineering, 2011, 8, 412-419.	5.2	4
26	Optimization Based Method for Supply Location Selection and Routing in Large-Scale Emergency Material Delivery. IEEE Transactions on Automation Science and Engineering, 2011, 8, 683-693.	5.2	44
27	Stochastic systems simulation optimization. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2011, 6, 468-480.	0.6	2
28	An optimization framework for solving capacitated multi-level lot-sizing problems with backlogging. European Journal of Operational Research, 2011, 214, 428-441.	5.7	68
29	A lower and upper bound guided nested partitions method for solving capacitated multi-level production planning problems. , 2011, , .		1
30	Mathematical models for capacitated multi-level production planning problems with linked lot sizes. International Journal of Production Research, 2011, 49, 6227-6247.	7.5	32
31	Optimal supply location selection and routing for emergency material delivery with uncertain demands. , 2010, , .		2
32	An HNP-MP Approach for the Capacitated Multi-Item Lot Sizing Problem With Setup Times. IEEE Transactions on Automation Science and Engineering, 2010, 7, 500-511.	5.2	28
33	Hybrid nested Partitions And Relax-And-Fix approach for capacitated multi-item lot sizing problem. , 2009, , .		2
34	Nested partitions for the large-scale extended job shop scheduling problem. Annals of Operations Research, 2009, 168, 23-39.	4.1	9
35	A new heuristic method for capacitated multi-level lot sizing problem with backlogging. , 2009, , .		6
36	Solving Beam-Angle Selection and Dose Optimization Simultaneously via High-Throughput Computing. INFORMS Journal on Computing, 2009, 21, 427-444.	1.7	20

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37	Nested Partitions and Its Applications to the Intermodal Hub Location Problem. Springer Optimization and Its Applications, 2009, , 229-251.	0.9	4
38	A nested partitions framework for beam angle optimization in intensity-modulated radiation therapy. Physics in Medicine and Biology, 2008, 53, 3293-3307.	3.0	23
39	Hybrid Nested Partitions and Mathematical Programming Approach and Its Applications. IEEE Transactions on Automation Science and Engineering, 2008, 5, 573-586.	5.2	23
40	Some topics for simulation optimization. , 2008, , .		34
41	A variant of examination timetabling problem. , 2008, , .		1
42	New Solution Approaches to the General Single- Machine Earliness-Tardiness Problem. IEEE Transactions on Automation Science and Engineering, 2008, 5, 349-360.	5.2	12
43	Simulation and Optimization. , 2008, , 247-260.		17
44	Integrated dynamic and simulation model on coupled closed-loop workstation capacity controls in a multi-workstation production system. , 2008, , .		4
45	Optimal Supply Location Selection and Routing for Emergency Material Delivery. , 2007, , .		12
46	A New Solution Approach to the General Min-Max Sequencing Problem. , 2006, , .		1
47	Nested Partitions Method for the Local Pickup and Delivery Problem. , 2006, , .		0
48	Computing the optimal partition of variables in multi-homogeneous homotopy methods. Applied Mathematics and Computation, 2005, 163, 825-840.	2.2	6
49	A real-options-based analysis for supply chain decisions. IIE Transactions, 2005, 37, 945-956.	2.1	44
50	An Efficient Search Method for Job-Shop Scheduling Problems. IEEE Transactions on Automation Science and Engineering, 2005, 2, 73-77.	5.2	10
51	A nested partitions framework for solving large-scale multicommodity facility location problems. Journal of Systems Science and Systems Engineering, 2004, 13, 158-179.	1.6	26
52	Minimizing job shop inventory with on-time delivery guarantees. Journal of Systems Science and Systems Engineering, 2003, 12, 449-469.	1.6	3
53	Optimal buffer allocation in production lines. IIE Transactions, 2003, 35, 1-10.	2.1	88
54	A REAL OPTIONS DESIGN FOR PRODUCT OUTSOURCING. Engineering Economist, 2003, 48, 199-217.	1.1	43

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55	A REAL OPTIONS DESIGN FOR QUALITY CONTROL CHARTS. Engineering Economist, 2002, 47, 28-59.	1.1	20
56	Ordinal Comparison via the Nested Partitions Method. Discrete Event Dynamic Systems: Theory and Applications, 2002, 12, 211-239.	1.5	6
57	Analysis of Departure Times in Discrete and Continuous Tandem Production Lines. Discrete Event Dynamic Systems: Theory and Applications, 2002, 12, 159-186.	1.5	2
58	An Optimization Framework for Product Design. Management Science, 2001, 47, 1681-1692.	4.1	95
59	A New Algorithm for Stochastic Discrete Resource Allocation Optimization. Discrete Event Dynamic Systems: Theory and Applications, 2000, 10, 271-294.	1.5	40
60	A method for scheduling in parallel manufacturing systems with flexible resources. IIE Transactions, 2000, 32, 135-146.	2.1	16
61	Stopping Rules for the Stochastic Nested Partitions Method. Methodology and Computing in Applied Probability, 2000, 2, 37-58.	1.2	7
62	Nested Partitions Method for Stochastic Optimization. Methodology and Computing in Applied Probability, 2000, 2, 271-291.	1.2	127
63	Nested Partitions Method for Global Optimization. Operations Research, 2000, 48, 390-407.	1.9	326
64	A method for scheduling in parallel manufacturing systems with flexible resources. IIE Transactions, 2000, 32, 135-146.	2.1	28
65	REAL OPTION MODELS FOR MANAGING MANUFACTURING SYSTEM CHANGES IN THE NEW ECONOMY. Engineering Economist, 2000, 45, 232-258.	1.1	25
66	New parallel randomized algorithms for the traveling salesman problem. Computers and Operations Research, 1999, 26, 371-394.	4.0	57
67	Sample Path Analysis for Continuous Tandem Production Lines. Discrete Event Dynamic Systems: Theory and Applications, 1999, 9, 211-239.	1.5	10
68	Optimization via adaptive sampling and regenerative simulation. , 0, , .		2
69	Intelligent temporal control. , 0, , .		3
70	A method for real-time scheduling problems. , 0, , .		0
71	Stopping criterion for a simulation-based optimization method. , 0, , .		2
72	Hybrid equipartitioning job scheduling policies for parallel computer systems. , 0, , .		0

#	ARTICLE	IF	CITATIONS
73	Simultaneous simulation experiments and nested partition for discrete resource allocation in supply chain management. , 0, , .		0
74	Effect of implementation time on real options valuation. , 0, , .		3
75	A new optimization approach to the general single machine earliness-tardiness problem. , 0, , .		0