

# Leyuan Shi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3064392/publications.pdf>

Version: 2024-02-01

39  
papers

384  
citations

759055

12  
h-index

794469

19  
g-index

39  
all docs

39  
docs citations

39  
times ranked

272  
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Budget Allocation Framework for the Expected Opportunity Cost. <i>Operations Research</i> , 2017, 65, 787-803.	1.2	52
2	An Optimal Sample Allocation Strategy for Partition-Based Random Search. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014, 11, 177-186.	3.4	50
3	Mathematical models for capacitated multi-level production planning problems with linked lot sizes. <i>International Journal of Production Research</i> , 2011, 49, 6227-6247.	4.9	32
4	Dynamic emergency logistics planning: models and heuristic algorithm. <i>Optimization Letters</i> , 2015, 9, 1533-1552.	0.9	32
5	Flow shop scheduling with a batch processor and limited buffer. <i>International Journal of Production Research</i> , 2017, 55, 3217-3233.	4.9	25
6	An MIP-based interval heuristic for the capacitated multi-level lot-sizing problem with setup times. <i>Annals of Operations Research</i> , 2012, 196, 635-650.	2.6	23
7	Selecting the Best Simulated Design With the Expected Opportunity Cost Bound. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 2785-2790.	3.6	21
8	Customer order scheduling on batch processing machines with incompatible job families. <i>International Journal of Production Research</i> , 2018, 56, 795-808.	4.9	19
9	Mixed integer programming in production planning with backlogging and setup carryover: modeling and algorithms. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2013, 23, 211-239.	0.6	18
10	Data mining-based dispatching system for solving the local pickup and delivery problem. <i>Annals of Operations Research</i> , 2013, 203, 351-370.	2.6	17
11	On the equivalence of strong formulations for capacitated multi-level lot sizing problems with setup times. <i>Journal of Global Optimization</i> , 2012, 53, 615-639.	1.1	15
12	A Sequential Budget Allocation Framework for Simulation Optimization. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 1185-1194.	3.4	13
13	Integrated optimisation on flow-shop production with cutting stock. <i>International Journal of Production Research</i> , 2019, 57, 5996-6012.	4.9	9
14	Treatment Planning for Volumetric-Modulated Arc Therapy: Model and Heuristic Algorithms. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 116-126.	3.4	8
15	A hybrid nested partitions algorithm for scheduling flexible resource in flow shop problem. <i>International Journal of Production Research</i> , 2012, 50, 2555-2569.	4.9	6
16	Approximation method to rank-one binary matrix factorization. , 2014, , .		6
17	A peak-over-threshold search method for global optimization. <i>Automatica</i> , 2018, 89, 83-91.	3.0	5
18	Minimising total weighted completion time on batch and unary machines with incompatible job families. <i>International Journal of Production Research</i> , 2019, 57, 567-581.	4.9	5

#	ARTICLE	IF	CITATIONS
19	Automatic Design of Dispatching Rules for Real-time optimization of Complex Production Systems. , 2019, , .		5
20	Automatic Design of Efficient Heuristics for Two-Stage Hybrid Flow Shop Scheduling. Symmetry, 2022, 14, 632.	1.1	4
21	Formulation and Methods for a Class of Two-stage Flow-shop Scheduling Problem with the Batch Processor. , 2020, , .		3
22	A new method for a class of parallel batch machine scheduling problem. Flexible Services and Manufacturing Journal, 2022, 34, 518-550.	1.9	3
23	An optimal opportunity cost selection procedure for a fixed number of designs. , 2014, , .		2
24	Simulation Optimization on Complex Job Shop Scheduling with Non-Identical Job Sizes. Asia-Pacific Journal of Operational Research, 2019, 36, 1950026.	0.9	2
25	Wafer Defect Inspection Optimization With Partial Coverage--A Numerical Approach. IEEE Transactions on Automation Science and Engineering, 2020, , 1-12.	3.4	2
26	A lower and upper bound guided nested partitions method for solving capacitated multi-level production planning problems. , 2011, , .		1
27	Optimizing local pickup and delivery with uncertain loads. , 2011, , .		1
28	Integrated operating room scheduling optimization under particularly workload constrain of surgeon. , 2013, , .		1
29	Production planning for a class of batch processing problem. , 2015, , .		1
30	Multi-level Lot-streaming Production Planning with the Objective of Workload Balancing. , 2019, , .		1
31	A Genetic Programming-Based Evolutionary Approach for Flexible Job Shop Scheduling with Multiple Process Plans. , 2020, , .		1
32	Robust Optimization on Unrelated Parallel Machine Scheduling With Setup Times. IEEE Transactions on Automation Science and Engineering, 2023, 20, 346-360.	3.4	1
33	Evaluation of improvement probability for IMRT plans. , 2013, , .		0
34	Two-stage flow shop with a batch processor and limited buffer. , 2016, , .		0
35	A machine learning-based nested partitions framework for angle selection in radiotherapy. Optimization Methods and Software, 2016, 31, 1169-1188.	1.6	0
36	Auction policy analysis: An agent-based simulation optimization model of grain market. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Simulation optimization for the MRO scheduling problem based on multi-fidelity models. , 2016, , .		0
38	A new solution approach for flow shop scheduling with an exponential time-dependent learning effect. , 2019, , .		0
39	Workload Balancing for Production Planning With Lot Streaming and Multilevel BOM. IEEE Transactions on Automation Science and Engineering, 2021, 18, 255-268.	3.4	0