Jiyin Liu

List of Publications by Citations

77 papers	3,554 citations	28 h-index	59 g-index
82 ext. papers	4,194 ext. citations	5.2 avg, IF	5.41 L-index

#	Paper	IF	Citations
77	A review of planning and scheduling systems and methods for integrated steel production. *European Journal of Operational Research*, **2001**, 133, 1-20	5.6	237
76	Storage space allocation in container terminals. *Transportation Research Part B: Methodological*, **2003**, 37, 883-903	7.2	236
75	An Improved Differential Evolution Algorithm for Practical Dynamic Scheduling in Steelmaking-Continuous Casting Production. *IEEE Transactions on Evolutionary Computation*, **2014**, 18, 209-225	15.6	221
74	Addressing the gap in scheduling research: a review of optimization and heuristic methods in production scheduling. *International Journal of Production Research*, **1993**, 31, 59-79	7.8	213
73	A decision support system for operations in a container terminal. *Decision Support Systems*, **2005**, 39, 309-332	5.6	211
72	A multiple traveling salesman problem model for hot rolling scheduling in Shanghai Baoshan Iron & Steel Complex. *European Journal of Operational Research*, **2000**, 124, 267-282	5.6	210
71	. *IEEE Transactions on Evolutionary Computation*, **2015**, 19, 560-574	15.6	183
70	Constructive and composite heuristic solutions to the P//$\sum C_i$ scheduling problem. *European Journal of Operational Research*, **2001**, 132, 439-452	5.6	162
69	Dynamic crane deployment in container storage yards. *Transportation Research Part B: Methodological*, **2002**, 36, 537-555	7.2	159
68	A mathematical programming model for scheduling steelmaking-continuous casting production. *European Journal of Operational Research*, **2000**, 120, 423-435	5.6	152
67	Steel-making process scheduling using Lagrangian relaxation. *International Journal of Production Research*, **2002**, 40, 55-70	7.8	144
66	Quay crane scheduling at container terminals to minimize the maximum relative tardiness of vessel departures. *Naval Research Logistics*, **2006**, 53, 60-74	1.5	109
65	The assignment of storage locations to containers for a container stack. *Naval Research Logistics*, **2009**, 56, 699-713	1.5	81
64	A new classification scheme for flexible manufacturing systems. *International Journal of Production Research*, **1993**, 31, 299-309	7.8	72
63	Modeling and solution of the joint quay crane and truck scheduling problem. *European Journal of Operational Research*, **2014**, 236, 978-990	5.6	70
62	Hongkong International Terminals Gains Elastic Capacity Using a Data-Intensive Decision-Support System. *Interfaces*, **2005**, 35, 61-75	0.7	70
61	A neural network model and algorithm for the hybrid flow shop scheduling problem in a dynamic environment. *Journal of Intelligent Manufacturing*, **2005**, 16, 361-370	6.7	66

60	A new Lagrangian relaxation algorithm for hybrid flowshop scheduling to minimize total weighted completion time. *Computers and Operations Research*, **2006**, 33, 3344-3359	4.6	63
59	Mixed truck delivery systems with both hub-and-spoke and direct shipment. *Transportation Research, Part E: Logistics and Transportation Review*, **2003**, 39, 325-339	9	57
58	Modelling and a genetic algorithm solution for the slab stack shuffling problem when implementing steel rolling schedules. *International Journal of Production Research*, **2002**, 40, 1583-1595	7.8	55
57	Cyclic scheduling of a single hoist in extended electroplating lines: a comprehensive integer programming solution. *IIE Transactions*, **2002**, 34, 905-914		52
56	Multi-job lot streaming to minimize the mean completion time in m-1 hybrid flowshops. *International Journal of Production Economics*, **2005**, 96, 189-200	9.3	47
55	A global MILP model for FMS scheduling. *European Journal of Operational Research*, **1997**, 100, 441-453	5.6	37
54	Research into container reshuffling and stacking problems in container terminal yards. *IIE Transactions*, **2015**, 47, 751-766		36
53	An Efficient Optimal Solution to the Two-Hoist No-Wait Cyclic Scheduling Problem. *Operations Research*, **2005**, 53, 313-327	2.3	34
52	Models and algorithms for shuffling problems in steel plants. *Naval Research Logistics*, **2012**, 59, 502-524	1.5	32
51	A modified genetic algorithm for single machine scheduling. *Computers and Industrial Engineering*, **1999**, 37, 43-46	6.4	30
50	A combination of Lagrangian relaxation and column generation for order batching in steelmaking and continuous-casting production. *Naval Research Logistics*, **2011**, 58, 370-388	1.5	28
49	Single-job lot streaming in m 1 two-stage hybrid flowshops. *European Journal of Operational Research*, **2008**, 187, 1171-1183	5.6	24
48	Effective heuristics for the single machine sequencing problem with ready times. *International Journal of Production Research*, **1991**, 29, 1521-1533	7.8	21
47	Bicriteria scheduling on a single batching machine with job transportation and deterioration considerations. *Naval Research Logistics*, **2014**, 61, 269-285	1.5	20
46	Coil Batching to Improve Productivity and Energy Utilization in Steel Production. *Manufacturing and Service Operations Management*, **2016**, 18, 262-279	4.6	19
45	A heuristic algorithm for the two-hoist cyclic scheduling problem with overlapping hoist coverage ranges. *IIE Transactions*, **2008**, 40, 782-794		19
44	Cyclic scheduling of a single hoist in extended electroplating lines: a comprehensive integer programming solution. *IIE Transactions*, **2002**, 34, 905-914		19
43	A stochastic production planning problem with nonlinear cost. *Computers and Operations Research*, **2012**, 39, 1977-1987	4.6	18

42	A branch-and-price algorithm to solve the molten iron allocation problem in iron and steel industry. *Computers and Operations Research*, **2007**, 34, 3001-3015	4.6	18
41	A modified genetic algorithm for the flow shop sequencing problem to minimize mean flow time. *Journal of Intelligent Manufacturing*, **2002**, 13, 61-67	6.7	18
40	A Dynamic Analytics Method Based on Multistage Modeling for a BOF Steelmaking Process. *IEEE Transactions on Automation Science and Engineering*, **2019**, 16, 1097-1109	4.9	18
39	Warehouse location problems for air freight forwarders: a challenge created by the airport relocation. *Journal of Air Transport Management*, **1998**, 4, 201-207	5.1	16
38	Integrated storage space allocation and ship scheduling problem in bulk cargo terminals. *IIE Transactions*, **2016**, 48, 428-439		15
37	Crane scheduling in a warehouse storing steel coils. *IIE Transactions*, **2014**, 46, 267-282		15
36	A time-varying lot size method for the economic lot scheduling problem with shelf life considerations. *European Journal of Industrial Engineering*, **2008**, 2, 337	1.1	15
35	Multihoist Cyclic Scheduling With Fixed Processing and Transfer Times. *IEEE Transactions on Automation Science and Engineering*, **2007**, 4, 435-450	4.9	15
34	Hybrid backward and forward dynamic programming based Lagrangian relaxation for single machine scheduling. *Computers and Operations Research*, **2007**, 34, 2625-2636	4.6	15
33	An MILP model and a hybrid evolutionary algorithm for integrated operation optimisation of multi-head surface mounting machines in PCB assembly. *International Journal of Production Research*, **2017**, 55, 145-160	7.8	14
32	Robust assignment of airport gates with operational safety constraints. *International Journal of Automation and Computing*, **2016**, 13, 31-41	3.5	14
31	The production scheduling problem in a multi-page invoice printing system. *Computers and Operations Research*, **2010**, 37, 1814-1821	4.6	14
30	Scheduling of a single crane in batch annealing process. *Computers and Operations Research*, **2009**, 36, 2853-2865	4.6	13
29	An integrated model for ship routing with transshipment and berth allocation. *IIE Transactions*, **2014**, 46, 1357-1370		11
28	A new model and an efficient branch-and-bound solution for cyclic multi-hoist scheduling. *IIE Transactions*, **2014**, 46, 249-262		11
27	Modeling and solution for the ship stowage planning problem of coils in the steel industry. *Naval Research Logistics*, **2015**, 62, 564-581	1.5	10
26	The impact of neighbourhood size on the process of simulated annealing: Computational experiments on the flowshop scheduling problem. *Computers and Industrial Engineering*, **1999**, 37, 285-288	6.4	9
25	Integrated scheduling of loading and transportation with tractors and semitrailers separated. *Naval Research Logistics*, **2015**, 62, 416-433	1.5	8

24	An MILP model and clustering heuristics for LED assembly optimisation on high-speed hybrid pick-and-place machines. *International Journal of Production Research*, **2014**, 52, 1016-1031	7.8	8
23	The equipment maintenance scheduling problem in a coal production system. *International Journal of Production Research*, **2013**, 51, 5309-5336	7.8	8
22	Color-Coating Production Scheduling for Coils in Inventory in Steel Industry. *IEEE Transactions on Automation Science and Engineering*, **2008**, 5, 544-549	4.9	8
21	Modelling and a tabu search solution for the slab reallocation problem in the steel industry. *International Journal of Production Research*, **2013**, 51, 4405-4420	7.8	7
20	Rolling Horizon Approach for Dynamic Parallel Machine Scheduling Problem with Release Times. *Industrial & Engineering Chemistry Research*, **2010**, 49, 381-389	3.9	7
19	Dynamically scheduling ships to multiple continuous berth spaces in an iron and steel complex. *International Transactions in Operational Research*, **2009**, 16, 87-107	2.9	7
18	A Stacked Autoencoder With Sparse Bayesian Regression for End-Point Prediction Problems in Steelmaking Process. *IEEE Transactions on Automation Science and Engineering*, **2020**, 17, 550-561	4.9	6
17	Model and Heuristic Solutions for the Multiple Double-Load Crane Scheduling Problem in Slab Yards. *IEEE Transactions on Automation Science and Engineering*, **2020**, 17, 1307-1319	4.9	6
16	Resource location for relief distribution and victim evacuation after a sudden-onset disaster. *IISE Transactions*, **2019**, 51, 830-846	3.3	6
15	Modeling and Solution for the Coil Sequencing Problem in Steel Color-Coating Production. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 1409-1420	4.8	5
14	An improved Lagrangean relaxation algorithm for the dynamic batching decision problem. *International Journal of Production Research*, **2011**, 49, 2501-2517	7.8	5
13	Operations Research Transforms Baosteel Operations. *Interfaces*, **2014**, 44, 22-38	0.7	3
12	Scheduling the operations of a double-load crane in slab yards. *International Journal of Production Research*, **2020**, 58, 2647-2657	7.8	3
11	Logistics optimisation of slab pre-marshalling problem in steel industry. *International Journal of Production Research*, **2020**, 58, 4050-4070	7.8	3
10	Assignment of duplicate storage locations in distribution centres to minimise walking distance in order picking. *International Journal of Production Research*, **2021**, 59, 4457-4471	7.8	3
9	. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 1478-1491	4.9	3
8	An efficient optimal solution to the coil sequencing problem in electro-galvanizing line. *Computers and Operations Research*, **2010**, 37, 1780-1796	4.6	2
7	Global Method for a Class of Operation Optimization Problem in Steel Rolling Systems. *Industrial & Engineering Chemistry Research*, **2019**, 58, 5552-5566	3.9	1

6   Optimizing airport gate assignment with operational safety constraints **2014**,   1

5   Service scheduling to minimise the risk of missing appointments **2017**,   1

4   A comparison of tabu search and local search methods for single machine scheduling with ready time. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1999**, 32, 6127-6132   1

3   Decision Support System for Green Real-Life Field Scheduling Problems. *Lecture Notes in Computer Science*, **2017**, 355-369   0.9   1

2   Continuous-time formulation and differential evolution algorithm for an integrated batching and scheduling problem in aluminium industry. *International Journal of Production Research*, **2021**, 59, 3169-3184   7.8   1

1   Incorporating Risk in Field Services Operational Planning Process. *Lecture Notes in Computer Science*, **2018**, 293-307   0.9