Erwin Pesch

List of Publications by Year
in descending order

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138	6,040	134610	97045
papers	citations	34 h-index	71 g-index

152	152	152	3723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stronger mixed-integer programming-formulations for order- and rack-sequencing in robotic mobile fulfillment systems. European Journal of Operational Research, 2023, 305, 1063-1078.	3.5	5
2	The Piggyback Transportation Problem: Transporting drones launched from a flying warehouse. European Journal of Operational Research, 2022, 296, 504-519.	3.5	22
3	An algorithm selection approach for the flexible job shop scheduling problem: Choosing constraint programming solvers through machine learning. European Journal of Operational Research, 2022, 302, 874-891.	3.5	19
4	OR and analytics for digital, resilient, and sustainable manufacturing 4.0. Annals of Operations Research, 2022, 310, 1-6.	2.6	31
5	Solving a hybrid mixed fleet heterogeneous dial-a-ride problem in delay-sensitive container transportation. International Journal of Production Research, 2022, 60, 297-323.	4.9	7
6	Fixed interval scheduling with thirdâ€party machines. Networks, 2021, 77, 361-371.	1.6	0
7	Provision-after-wait with preferences ordered by difference: Tighter complexity and better approximation. European Journal of Operational Research, 2021, 289, 1008-1012.	3.5	0
8	Dynamic pricing with demand disaggregation for hotel revenue management. Journal of Heuristics, 2021, 27, 869-885.	1.1	4
9	New Perspectives in Scheduling Theory. Journal of Scheduling, 2021, 24, 455-457.	1.3	1
10	Hybrid adaptive large neighborhood search algorithm for the mixed fleet heterogeneous dial-a-ride problem. Journal of Heuristics, 2020, 26, 83-118.	1.1	21
11	Non-approximability of the single crane container transhipment problem. International Journal of Production Research, 2020, 58, 3965-3975.	4.9	9
12	Container truck transportation routing as a Mixed Fleet Heterogeneous Dial-a-Ride Problem. MATEC Web of Conferences, 2020, 312, 02005.	0.1	3
13	Minimizing maximum cost for a single machine under uncertainty of processing times. European Journal of Operational Research, 2020, 286, 444-457.	3.5	5
14	Container depot location problem in the frame of the Polish part of the New Silk Road. MATEC Web of Conferences, 2020, 312, 02004.	0.1	1
15	Approaches to empty container repositioning problems in the context of Eurasian intermodal transportation. Omega, 2019, 85, 194-213.	3.6	88
16	Solving the single crane scheduling problem at rail transshipment yards. Discrete Applied Mathematics, 2019, 264, 134-147.	0.5	14
17	Straddle carrier routing at seaport container terminals in the presence of short term quay crane buffer areas. European Journal of Operational Research, 2019, 279, 732-750.	3.5	23
18	Open Shop Scheduling. , 2019, , 321-343.		0

#	Article	IF	Citations
19	Flow Shop Scheduling. , 2019, , 271-320.		0
20	Scheduling under Resource Constraints. , 2019, , 475-525.		4
21	Scheduling Imprecise Computations. , 2019, , 527-576.		2
22	Ablaufplanung. , 2019, , .		1
23	The train-to-yard assignment problem. OR Spectrum, 2019, 41, 549-580.	2.1	0
24	Clarification of lower bounds of two-machine flow-shop scheduling to minimize total late work. Engineering Optimization, 2019, 51, 1279-1280.	1.5	6
25	A parallel machine schedule updating game with compensations and clients averse to uncertain loss. Computers and Operations Research, 2019, 103, 148-157.	2.4	5
26	Two-machine flow-shop scheduling to minimize total late work: revisited. Engineering Optimization, 2019, 51, 1268-1278.	1.5	12
27	Complexity and Approximation Results for Setup-Minimal Batch Scheduling with Deadlines on a Single Processor. Operations Research Proceedings: Papers of the Annual Meeting = VortrÃge Der Jahrestagung / DGOR, 2019, , 475-480.	0.1	0
28	Optimization approaches for civil applications of unmanned aerial vehicles (UAVs) or aerial drones: A survey. Networks, 2018, 72, 411-458.	1.6	568
29	A note on scheduling container storage operations of two nonâ€passing stacking cranes. Networks, 2018, 71, 271-280.	1.6	12
30	An overview of revenue management and dynamic pricing models in hotel business. RAIRO - Operations Research, 2018, 52, 119-141.	1.0	13
31	Single-machine batch scheduling to minimize the total setup cost in the presence of deadlines. Journal of Scheduling, 2018, 21, 595-606.	1.3	5
32	Mechanism design for machine scheduling problems: classification and literature overview. OR Spectrum, 2018, 40, 583-611.	2.1	17
33	Incentive compatible mechanisms for scheduling two-parameter job agents on parallel identical machines to minimize the weighted number of late jobs. Discrete Applied Mathematics, 2018, 242, 89-101.	0.5	5
34	Scheduling in manufacturing systems: new trends and perspectives. International Journal of Production Research, 2018, 56, 6333-6335.	4.9	11
35	Container Dispatching and Conflict-Free Yard Crane Routing in an Automated Container Terminal. Transportation Science, 2018, 52, 1059-1076.	2.6	47
36	New challenges in scheduling theory. Journal of Scheduling, 2018, 21, 581-582.	1.3	0

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37	A Mechanism Design Approach to Planning Problems in Intermodal Transport Logistics of Large City Sea Ports and Megahubs. , 2018, , 215-229.		0
38	Flight gate assignment and recovery strategies with stochastic arrival and departure times. OR Spectrum, 2017, 39, 65-93.	2.1	42
39	Operation of shunting yards: train-to-yard assignment problem. Journal of Business Economics, 2017, 87, 465-486.	1.3	4
40	An integrated model for the transshipment yard scheduling problem. Journal of Scheduling, 2017, 20, 57-65.	1.3	13
41	Routing Problems with Time Dependencies or how Different are Trash Collection or Newspaper Delivery from Street Sweeping or Winter Gritting?. Procedia Engineering, 2017, 182, 235-240.	1.2	2
42	Two-Way Bounded Dynamic Programming Approach for Operations Planning in Transshipment Yards. Transportation Science, 2017, 51, 325-342.	2.6	15
43	Which items should be stored together? A basic partition problem to assign storage space in group-based storage systems. IISE Transactions, 2017, 49, 13-30.	1.6	16
44	The windy rural postman problem with a time-dependent zigzag option. European Journal of Operational Research, 2017, 258, 1131-1142.	3.5	12
45	Prerequisites for the modelling of empty container supply chains. Engineering Management in Production and Services, 2017, 9, 28-36.	0.5	11
46	New challenges in scheduling theory. Journal of Scheduling, 2016, 19, 617-618.	1.3	0
47	Decentralized sequencing of jobs on a single machine. , 2016, , .		0
48	Scheduling dedicated jobs with variative processing times. Journal of Combinatorial Optimization, 2016, 31, 774-785.	0.8	3
49	An approximation algorithm for a special case of the asymmetric travelling salesman problem. International Journal of Production Research, 2016, 54, 4205-4212.	4.9	3
50	Good Laboratory Practice for optimization research. Journal of the Operational Research Society, 2016, 67, 676-689.	2.1	63
51	Competitive Location and Pricing on Networks with Random Utilities. Networks and Spatial Economics, 2016, 16, 837-863.	0.7	23
52	An Integrated Matching and Partitioning Problem with Applications in Intermodal Transport. , 2015, , .		0
53	Approximation algorithms for inventory constrained scheduling on a single machine. Journal of Scheduling, 2015, 18, 645-653.	1.3	7
54	Minimizing maximum weight of subsets of a maximum matching in a bipartite graph. Discrete Applied Mathematics, 2015, 196, 4-19.	0.5	14

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55	The Partitioning Minâ€“Max Weighted Matching Problem. European Journal of Operational Research, 2015, 247, 745-754.	3.5	11
56	Approximate solution of a profit maximization constrained virtual business planning problem. Omega, 2015, 57, 212-216.	3.6	3
57	Mathematical formulations for a 1-full-truckload pickup-and-delivery problem. European Journal of Operational Research, 2015, 242, 1008-1016.	3.5	16
58	New perspectives in scheduling theory. Journal of Scheduling, 2015, 18, 333-334.	1.3	7
59	New challenges in scheduling theory. RAIRO - Operations Research, 2015, 49, 335-337.	1.0	0
60	Multiproduct batching and scheduling with buffered rework: The case of a car paint shop. Naval Research Logistics, 2014, 61, 458-471.	1.4	2
61	AnO(nlogn)algorithm for a single-item capacitated lot-sizing problem with linear costs and no backlogging. International Journal of Production Research, 2014, 52, 3758-3761.	4.9	4
62	Minimizing setup costs in a transfer line design problem with sequential operation processing. International Journal of Production Economics, 2014, 151, 186-194.	5.1	14
63	A branch-and-bound algorithm for the acyclic partitioning problem. Computers and Operations Research, 2014, 41, 174-184.	2.4	12
64	A game mechanism for single machine sequencing with zero risk. Omega, 2014, 44, 104-110.	3.6	13
65	Mathematical Formulations for the Acyclic Partitioning Problem. Operations Research Proceedings: Papers of the Annual Meeting = VortrÄge Der Jahrestagung / DGOR, 2014, , 333-339.	0.1	1
66	Guest editorial: â€œNew trends in schedulingâ€• Journal of Scheduling, 2013, 16, 347-348.	1.3	0
67	Exact algorithms for inventory constrained scheduling on a single machine. Journal of Scheduling, 2013, 16, 105-115.	1.3	28
68	A truck scheduling problem arising in intermodal container transportation. European Journal of Operational Research, 2013, 230, 666-680.	3.5	76
69	MLP accompanied beam search for the resonance assignment problem. Journal of Heuristics, 2013, 19, 443-464.	1.1	6
70	Parallel machine scheduling and common due window assignment with job independent earliness and tardiness costs. Information Sciences, 2013, 224, 109-117.	4.0	27
71	New bounds and constraint propagation techniques for the clique partitioning problem. Discrete Applied Mathematics, 2013, 161, 2025-2037.	0.5	24
72	A Lagrangian lower bound for the container transshipment problem at a railway hub for a fast branch-and-bound algorithm. Journal of the Operational Research Society, 2013, 64, 1614-1621.	2.1	3

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73	Variable very large neighbourhood algorithms for truck sequencing at transshipment terminals. International Journal of Production Research, 2013, 51, 7140-7155.	4.9	10
74	A Survey on Container Processing in Railway Yards. Transportation Science, 2013, 47, 312-329.	2.6	95
75	Planning and Scheduling in Intermodal Transport. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 27-32.	0.4	2
76	(r|p)-centroid problems on networks with vertex and edge demand. Computers and Operations Research, 2012, 39, 2954-2967.	2.4	6
77	An FPTAS for the single-item capacitated economic lot-sizing problem with supply and demand. Operations Research Letters, 2012, 40, 445-449.	0.5	4
78	New bounds and algorithms for the transshipment yard scheduling problem. Journal of Scheduling, 2012, 15, 499-511.	1.3	28
79	Sequential competitive location on networks. European Journal of Operational Research, 2012, 217, 483-499.	3.5	110
80	Shunting yard operations: Theoretical aspects and applications. European Journal of Operational Research, 2012, 220, 1-14.	3.5	99
81	Flight gate scheduling with respect to a reference schedule. Annals of Operations Research, 2012, 194, 177-187.	2.6	40
82	Protein alignment algorithms with an efficient backtracking routine on multiple GPUs. BMC Bioinformatics, 2011, 12, 181.	1.2	51
83	Scheduling Freight Trains in Rail-Rail Transshipment Yards. Transportation Science, 2011, 45, 199-211.	2.6	51
84	A generic approach to proving NP-hardness of partition type problems. Discrete Applied Mathematics, 2010, 158, 1908-1912.	0.5	8
85	Revenue Maximization on Parallel Machines. , 2009, , 153-158.		0
86	Recursive functions on the plane and FPTASs for production planning and scheduling problems with two facilities. Mathematical Methods of Operations Research, 2009, 70, 313-335.	0.4	0
87	Late work minimization in flow shops by a genetic algorithm. Computers and Industrial Engineering, 2009, 57, 1202-1209.	3.4	27
88	Analysis, modeling and solution of the concrete delivery problem. European Journal of Operational Research, 2009, 193, 820-835.	3.5	57
89	Metaheuristic approaches for the two-machine flow-shop problem with weighted late work criterion and common due date. Computers and Operations Research, 2008, 35, 574-599.	2.4	40
90	A single-item economic lot-sizing problem with a non-uniform resource: Approximation. European Journal of Operational Research, 2008, 189, 877-889.	3.5	11

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91	Modelling Robust Flight-Gate Scheduling as a Clique Partitioning Problem. Transportation Science, 2008, 42, 292-301.	2.6	88
92	Disruption management in flight gate scheduling. Statistica Neerlandica, 2007, 61, 92-114.	0.9	24
93	Flight gate scheduling: State-of-the-art and recent developments. Omega, 2007, 35, 326-334.	3.6	126
94	Selected papers from the Dagstuhl workshop. Journal of Scheduling, 2007, 10, 85-86.	1.3	0
95	A note on the two machine job shop with the weighted late work criterion. Journal of Scheduling, 2007, 10, 87-95.	1.3	25
96	An FPTAS for a single-item capacitated economic lot-sizing problem with monotone cost structure. Mathematical Programming, 2006, 106, 453-466.	1.6	39
97	The two-machine flow-shop problem with weighted late work criterion and common due date. European Journal of Operational Research, 2005, 165, 408-415.	3.5	52
98	A novel representation of graph structures in web mining and data analysis. Omega, 2005, 33, 65-71.	3.6	10
99	A comparison of solution procedures for two-machine flow shop scheduling with late work criterion. Computers and Industrial Engineering, 2005, 49, 611-624.	3.4	33
100	A review of exact solution methods for the non-preemptive multiprocessor flowshop problem. European Journal of Operational Research, 2005, 164, 592-608.	3.5	104
101	Metaheuristics for Late Work Minimization in Two-Machine Flow Shop with Common Due Date. Lecture Notes in Computer Science, 2005, , 222-234.	1.0	4
102	Open shop scheduling problems with late work criteria. Discrete Applied Mathematics, 2004, 134, 1-24.	0.5	50
103	Title is missing!. Annals of Operations Research, 2002, 115, 125-145.	2.6	23
104	Solving the open shop scheduling problem. Journal of Scheduling, 2001, 4, 157-174.	1.3	69
105	Scheduling Computer and Manufacturing Processes. , 2001, , .		147
106	Scheduling in Flow and Open Shops. , 2001, , 247-272.		0
107	Scheduling in Job Shops. , 2001, , 273-315.		0
108	Scheduling under Resource Constraints. , 2001, , 317-365.		1

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109	Constraint propagation techniques for the disjunctive scheduling problem. Artificial Intelligence, 2000, 122, 189-240.	3.9	58
110	The disjunctive graph machine representation of the job shop scheduling problem. European Journal of Operational Research, 2000, 127, 317-331.	3.5	69
111	A branch-and-bound algorithm for the resource-constrained project scheduling problem. Mathematical Methods of Operations Research, 2000, 52, 413-439.	0.4	67
112	Total Late Work Criteria for Shop Scheduling Problems. , 2000, , 354-359.		10
113	A Time-Oriented Branch-and-Bound Algorithm for Resource-Constrained Project Scheduling with Generalised Precedence Constraints. Management Science, 2000, 46, 1365-1384.	2.4	93
114	Efficient facility layout planning in a maximally planar graph model. International Journal of Production Research, 1999, 37, 263-283.	4.9	14
115	Optimal workload allocation between a job shop and an FMS. IEEE Transactions on Automation Science and Engineering, 1999, 15, 20-32.	2.4	9
116	Resource-constrained project scheduling: Notation, classification, models, and methods. European Journal of Operational Research, 1999, 112, 3-41.	3.5	1,225
117	A Survey of Interval Capacity Consistency Tests for Time- and Resource-Constrained Scheduling. Profiles in Operations Research, 1999, , 213-238.	0.3	24
118	Recent Developments in Scheduling. , 1999, , 353-365.		0
119	A Branch and Bound Algorithm for the Job Shop Scheduling Problem. , 1998, , 219-254.		8
120	TSP ejection chains. Discrete Applied Mathematics, 1997, 76, 165-181.	0.5	44
121	The job shop scheduling problem: Conventional and new solution techniques. European Journal of Operational Research, 1996, 93, 1-33.	3.5	458
122	Constraint Propagation Based Scheduling of Job Shops. INFORMS Journal on Computing, 1996, 8, 144-157.	1.0	28
123	Scheduling in Job Shops. , 1996, , 275-317.		0
124	Evolution based learning in a job shop scheduling environment. Computers and Operations Research, 1995, 22, 25-40.	2.4	261
125	Strategies with memories: local search in an application oriented environment. OR Spectrum, 1995, 17, 55-66.	2.1	21
126	Modellbasierte Inferenz in CHARME. OR Spectrum, 1994, 16, 193-202.	2.1	0

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127	Genetic local search in combinatorial optimization. Discrete Applied Mathematics, 1994, 48, 273-284.	0.5	62
128	Fast Clustering Algorithms. ORSA Journal on Computing, 1994, 6, 141-153.	1.7	68
129	Knowledge Acquisition Through Schedule Decomposition. , 1994, , 389-392.		0
130	Competitive location on a network. European Journal of Operational Research, 1993, 66, 372-391.	3.5	18
131	Genetic Algorithms for Job Shop Scheduling. , 1993, , 243-250.		0
132	Efficient characterizations of n-chromatic absolute retracts. Journal of Combinatorial Theory Series B, 1991, 53, 5-31.	0.6	6
133	Genetic local search algorithms for the traveling salesman problem. Lecture Notes in Computer Science, 1991, , 109-116.	1.0	123
134	A Radon theorem for Helly graphs. Archiv Der Mathematik, 1989, 52, 95-98.	0.3	12
135	DismantlinG Absolute Retracts of Reflexive Graphs. European Journal of Combinatorics, 1989, 10, 211-220.	0.5	42
136	Products of absolute retracts. Discrete Mathematics, 1988, 69, 179-188.	0.4	5
137	Minimal extensions of graphs to absolute retracts. Journal of Graph Theory, 1987, 11, 585-598.	0.5	16
138	A characterization of absolute retracts of n-chromatic graphs. Discrete Mathematics, 1985, 57, 99-104.	0.4	21