David Pisinger

List of Publications by Year in Descending Order

132 papers	8,724 citations	42 h-index	92 g-index
156 ext. papers	10,282 ext. citations	3.4 avg, IF	6.67 L-index

#	Paper	IF	Citations
132	Reducing disease spread through optimization: Limiting mixture of the population is more important than limiting group sizes. *Computers and Operations Research*, **2022**, 105718	4.6	
131	Variable neighborhood search for large offshore wind farm layout optimization. *Computers and Operations Research*, **2022**, 138, 105588	4.6	5
130	An optimization approach for a complex real-life container loading problem. *Omega*, **2022**, 107, 102559	7.2	2
129	Multi-scale optimization of the design of offshore wind farms. *Applied Energy*, **2022**, 314, 118830	10.7	0
128	Understanding carsharing: A review of managerial practices towards relevant research insights. *Research in Transportation Business and Management*, **2021**, 41, 100653	2.8	5
127	The Baggage Belt Assignment Problem. *EURO Journal on Transportation and Logistics*, **2021**, 10, 100041	2.4	2
126	The multi-commodity network flow problem with soft transit time constraints: Application to liner shipping. *Transportation Research, Part E: Logistics and Transportation Review*, **2021**, 150, 102342	9	3
125	Modeling and solving the multimodal car- and ride-sharing problem. *European Journal of Operational Research*, **2021**, 293, 290-303	5.6	13
124	Baggage Carousel Assignment at Airports: Model and Case Study. *SN Operations Research Forum*, **2021**, 2, 1	0.5	1
123	Optimization of Transfer Baggage Handling in a Major Transit Airport. *SN Operations Research Forum*, **2021**, 2, 1	0.5	
122	The transit time constrained fixed charge multi-commodity network design problem. *Computers and Operations Research*, **2021**, 136, 105511	4.6	0
121	Sensitivity analysis of time aggregation techniques applied to capacity expansion energy system models. *Applied Energy*, **2020**, 269, 114938	10.7	2
120	An adaptive large neighbourhood search heuristic for routing and scheduling feeder vessels in multi-terminal ports. *European Journal of Operational Research*, **2020**, 287, 682-698	5.6	7
119	Finding a Portfolio of Near-Optimal Aggregated Solutions to Capacity Expansion Energy System Models. *SN Operations Research Forum*, **2020**, 1, 1	0.5	1
118	Vattenfall Optimizes Offshore Wind Farm Design. *Interfaces*, **2020**, 50, 80-94	0.7	3
117	Speed optimizations for liner networks with business constraints. *European Journal of Operational Research*, **2020**, 285, 1127-1140	5.6	15
116	Constraint Programming and Local Search Heuristic: a Matheuristic Approach for Routing and Scheduling Feeder Vessels in Multi-terminal Ports. *SN Operations Research Forum*, **2020**, 1, 1	0.5	2

115	Liner shipping network design. *European Journal of Operational Research*, **2020**, 286, 1-20	5.6	26
114	A comparative study of time aggregation techniques in relation to power capacity expansion modeling. *Top*, **2019**, 27, 353-405	1.3	4
113	An adaptive large neighborhood search metaheuristic for the vehicle routing problem with drones. *Transportation Research Part C: Emerging Technologies*, **2019**, 102, 289-315	8.4	99
112	Green Liner Shipping Network Design **2019**, 307-337		3
111	Rejoinder on: A comparative study of time aggregation techniques in relation to power capacity-expansion modeling. *Top*, **2019**, 27, 421-425	1.3	
110	Large Neighborhood Search. *Profiles in Operations Research*, **2019**, 99-127	1	9
109	Mathematical Optimization and Algorithms for Offshore Wind Farm Design: An Overview. *Business and Information Systems Engineering*, **2019**, 61, 469-485	3.8	13
108	Mixed Integer Linear Programming for new trends in wind farm cable routing. *Electronic Notes in Discrete Mathematics*, **2018**, 64, 115-124	0.3	13
107	A flow-first route-next heuristic for liner shipping network design. *Networks*, **2018**, 72, 358-381	1.6	11
106	Optimal wind farm cable routing: Modeling branches and offshore transformer modules. *Networks*, **2018**, 72, 42-59	1.6	14
105	Simultaneous Optimization of Container Ship Sailing Speed and Container Routing with Transit Time Restrictions. *Transportation Science*, **2018**, 52, 769-787	4.4	11
104	On the Impact of Considering Power Losses in Offshore Wind Farm Cable Routing. *Communications in Computer and Information Science*, **2018**, 267-292	0.3	2
103	Scheduling EURO-k conferences. *European Journal of Operational Research*, **2018**, 270, 1138-1147	5.6	5
102	Optimizing wind farm cable routing considering power losses. *European Journal of Operational Research*, **2018**, 270, 917-930	5.6	47
101	Railway capacity and expansion analysis using time discretized paths. *Flexible Services and Manufacturing Journal*, **2018**, 30, 712-739	1.8	4
100	Optimization in liner shipping. *Annals of Operations Research*, **2018**, 271, 205-236	3.2	4
99	Time constrained liner shipping network design. *Transportation Research, Part E: Logistics and Transportation Review*, **2017**, 105, 152-162	9	34
98	A dynamic programming approach for optimizing train speed profiles with speed restrictions and passage points. *Transportation Research Part B: Methodological*, **2017**, 99, 167-182	7.2	43

97	Competitive Liner Shipping Network Design. *Computers and Operations Research*, **2017**, 87, 125-136	4.6	22
96	Optimizing the supply chain of biomass and biogas for a single plant considering mass and energy losses. *European Journal of Operational Research*, **2017**, 262, 744-758	5.6	33
95	A Branch-and-Price algorithm for railway rolling stock rescheduling. *Transportation Research Part B: Methodological*, **2017**, 99, 228-250	7.2	17
94	Optimization in liner shipping. *4or*, **2017**, 15, 1-35	1.4	26
93	Tolerance analysis for 0[1] knapsack problems. *European Journal of Operational Research*, **2017**, 258, 866-876	3.6	4
92	On the Impact of using Mixed Integer Programming Techniques on Real-world Offshore Wind Parks **2017**,		4
91	The Edge Set Cost of the Vehicle Routing Problem with Time Windows. *Transportation Science*, **2016**, 50, 694-707	4.4	7
90	Big Data Optimization in Maritime Logistics. *Studies in Big Data*, **2016**, 319-344	0.9	16
89	Optimal retirement planning with a focus on single and joint life annuities. *Quantitative Finance*, **2016**, 16, 275-295	1.6	6
88	The liner shipping berth scheduling problem with transit times. *Transportation Research, Part E: Logistics and Transportation Review*, **2016**, 86, 116-128	9	29
87	Inter-array cable routing optimization for big wind parks with obstacles **2016**,		6
86	Optimization of the drayage problem using exact methods. *Infor*, **2016**, 54, 33-51	0.5	7
85	The load-balanced multi-dimensional bin-packing problem. *Computers and Operations Research*, **2016**, 74, 152-164	4.6	24
84	A combined stochastic programming and optimal control approach to personal finance and pensions. *OR Spectrum*, **2015**, 37, 583-616	1.9	15
83	Bunker Purchasing in Liner Shipping. *Profiles in Operations Research*, **2015**, 251-278	1	2
82	Optimal annuity portfolio under inflation risk. *Computational Management Science*, **2015**, 12, 461-488	1	3
81	The time constrained multi-commodity network flow problem and its application to liner shipping network design. *Transportation Research, Part E: Logistics and Transportation Review*, **2015**, 76, 122-138	9	60
80	Solving the Liner Shipping Fleet Repositioning Problem with Cargo Flows. *Transportation Science*, **2015**, 49, 652-674	4.4	13

79	A Matheuristic for the Liner Shipping Network Design Problem with Transit Time Restrictions. *Lecture Notes in Computer Science*, **2015**, 195-208	0.9	7
78	Capacity Analysis of Freight Transport with Application to the Danish and Southern Swedish Railway. *Lecture Notes in Computer Science*, **2015**, 627-647	0.9	1
77	A Base Integer Programming Model and Benchmark Suite for Liner-Shipping Network Design. *Transportation Science*, **2014**, 48, 281-312	4.4	156
76	Single liner shipping service design. *Computers and Operations Research*, **2014**, 45, 1-6	4.6	35
75	A service flow model for the liner shipping network design problem. *European Journal of Operational Research*, **2014**, 235, 378-386	5.6	60
74	A matheuristic for the liner shipping network design problem. *Transportation Research, Part E: Logistics and Transportation Review*, **2014**, 72, 42-59	9	45
73	A branch-and-cut algorithm for the capacitated profitable tour problem. *Discrete Optimization*, **2014**, 14, 78-96	1	17
72	Bunker purchasing with contracts. *Maritime Economics and Logistics*, **2014**, 16, 418-435	2.6	15
71	Single string planning problem arising in liner shipping industries: A heuristic approach. *Computers and Operations Research*, **2013**, 40, 2357-2373	4.6	5
70	The Vessel Schedule Recovery Problem (VSRP) – A MIP model for handling disruptions in liner shipping. *European Journal of Operational Research*, **2013**, 224, 362-374	5.6	108
69	Synchronized dial-a-ride transportation of disabled passengers at airports. *European Journal of Operational Research*, **2013**, 225, 106-117	5.6	37
68	Integrated job scheduling and network routing. *Networks*, **2013**, 61, 248-262	1.6	2
67	Separation and Extension of Cover Inequalities for Conic Quadratic Knapsack Constraints with Generalized Upper Bounds. *INFORMS Journal on Computing*, **2013**, 25, 420-431	2.4	4
66	A hybrid adaptive large neighborhood search heuristic for lot-sizing with setup times. *European Journal of Operational Research*, **2012**, 218, 614-623	5.6	49
65	Logistics in supply chains (Part 2). *Flexible Services and Manufacturing Journal*, **2012**, 24, 1-3	1.8	3
64	Scheduling of outbound luggage handling at airports. *Operations Research Proceedings: Papers of the Annual Meeting = Vortrge Der Jahrestagung / DGOR*, **2012**, 251-256	0.1	3
63	A branch and cut algorithm for the container shipping network design problem. *Flexible Services and Manufacturing Journal*, **2012**, 24, 349-374	1.8	93
62	Solving Vehicle Routing with Full Container Load and Time Windows. *Lecture Notes in Computer Science*, **2012**, 120-128	0.9	7

61	Fleet deployment, network design and hub location of liner shipping companies. *Transportation Research, Part E: Logistics and Transportation Review*, **2011**, 47, 947-964	9	96
60	Liner Shipping Cargo Allocation with Repositioning of Empty Containers. *Infor*, **2011**, 49, 109-124	0.5	52
59	Train shunting at a workshop area. *Flexible Services and Manufacturing Journal*, **2011**, 23, 156-180	1.8	15
58	Optimal wafer cutting in shuttle layout problems. *Journal of Combinatorial Optimization*, **2011**, 22, 202-216	0.9	0
57	Multi-objective and multi-constrained non-additive shortest path problems. *Computers and Operations Research*, **2011**, 38, 605-616	4.6	41
56	Large Neighborhood Search. *Profiles in Operations Research*, **2010**, 399-419	1	165
55	Liner shipping hub network design in a competitive environment. *Transportation Research, Part E: Logistics and Transportation Review*, **2010**, 46, 991-1004	9	130
54	Multi-dimensional bin packing problems with guillotine constraints. *Computers and Operations Research*, **2010**, 37, 1999-2006	4.6	20
53	Heuristics for container loading of furniture. *European Journal of Operational Research*, **2010**, 200, 881-892	3.6	36
52	Two- and three-index formulations of the minimum cost multicommodity k-splittable flow problem. *European Journal of Operational Research*, **2010**, 202, 82-89	5.6	15
51	The off-line group seat reservation problem. *European Journal of Operational Research*, **2010**, 207, 1244-1253	3.6	2
50	Heuristic approaches for the two- and three-dimensional knapsack packing problem. *Computers and Operations Research*, **2009**, 36, 1026-1049	4.6	78
49	Chvtal-Gomory Rank-1 Cuts Used in a Dantzig-Wolfe Decomposition of the Vehicle Routing Problem with Time Windows. *Operations Research/ Computer Science Interfaces Series*, **2008**, 397-419	0.3	14
48	Subset-Row Inequalities Applied to the Vehicle-Routing Problem with Time Windows. *Operations Research*, **2008**, 56, 497-511	2.3	187
47	Using Decomposition Techniques and Constraint Programming for Solving the Two-Dimensional Bin-Packing Problem. *INFORMS Journal on Computing*, **2007**, 19, 36-51	2.4	111
46	The quadratic knapsack problem survey. *Discrete Applied Mathematics*, **2007**, 155, 623-648	1	132
45	A general heuristic for vehicle routing problems. *Computers and Operations Research*, **2007**, 34, 2403-2435	4.6	757
44	Solution of Large Quadratic Knapsack Problems Through Aggressive Reduction. *INFORMS Journal on Computing*, **2007**, 19, 280-290	2.4	43

43	Algorithm 864. *ACM Transactions on Mathematical Software*, **2007**, 33, 7	2.3	59
42	Denser Packings Obtained inO(nlog logn) Time. *INFORMS Journal on Computing*, **2007**, 19, 395-405	2.4	7
41	Upper bounds and exact algorithms for -dispersion problems. *Computers and Operations Research*, **2006**, 33, 1380-1398	4.6	54
40	An Adaptive Large Neighborhood Search Heuristic for the Pickup and Delivery Problem with Time Windows. *Transportation Science*, **2006**, 40, 455-472	4.4	1028
39	A unified heuristic for a large class of Vehicle Routing Problems with Backhauls. *European Journal of Operational Research*, **2006**, 171, 750-775	5.6	270
38	Erratum to The Three-Dimensional Bin Packing ProblemRobot-Packable and Orthogonal Variants of Packing Problems. *Operations Research*, **2005**, 53, 735-736	2.3	29
37	The two-dimensional bin packing problem with variable bin sizes and costs. *Discrete Optimization*, **2005**, 2, 154-167	1	93
36	Where are the hard knapsack problems?. *Computers and Operations Research*, **2005**, 32, 2271-2284	4.6	193
35	Scheduling Transportation of Live Animals to Avoid the Spread of Diseases. *Transportation Science*, **2004**, 38, 197-209	4.4	38
34	Knapsack Problems **2004**,		1265
33	The Unbounded Knapsack Problem **2004**, 211-234		2
32	Multidimensional Knapsack Problems **2004**, 235-283		43
31	Multiple Knapsack Problems **2004**, 285-316		4
30	The Multiple-Choice Knapsack Problem **2004**, 317-347		32
29	Other Knapsack Problems **2004**, 389-424		4
28	Introduction to NP-Completeness of Knapsack Problems **2004**, 483-493		58
27	Guided Local Search for Final Placement in VLSI Design. *Journal of Heuristics*, **2003**, 9, 269-295	1.9	13
26	Dynamic Programming on the Word RAM. *Algorithmica*, **2003**, 35, 128-145	0.9	23

25	Guided Local Search for the Three-Dimensional Bin-Packing Problem. *INFORMS Journal on Computing*, **2003**, 15, 267-283	2.4	130
24	Discrete location problems with push-pull objectives. *Discrete Applied Mathematics*, **2002**, 123, 363-378	1	29
23	Heuristics for the container loading problem. *European Journal of Operational Research*, **2002**, 141, 382-392	3.8	228
22	Upper Bounds on the Covering Number of Galois-Planes with Small Order. *Journal of Heuristics*, **2001**, 7, 59-76	1.9	1
21	Budgeting with bounded multiple-choice constraints. *European Journal of Operational Research*, **2001**, 129, 471-480	5.6	26
20	New trends in exact algorithms for the 0-1 knapsack problem. *European Journal of Operational Research*, **2000**, 123, 325-332	5.6	198
19	Approximation algorithms for knapsack problems with cardinality constraints. *European Journal of Operational Research*, **2000**, 123, 333-345	5.6	105
18	A Minimal Algorithm for the Bounded Knapsack Problem. *INFORMS Journal on Computing*, **2000**, 12, 75-82	2.4	31
17	The Three-Dimensional Bin Packing Problem. *Operations Research*, **2000**, 48, 256-267	2.3	367
16	Core Problems in Knapsack Algorithms. *Operations Research*, **1999**, 47, 570-575	2.3	93
15	Dynamic Programming and Strong Bounds for the 0-1 Knapsack Problem. *Management Science*, **1999**, 45, 414-424	3.9	247
14	An exact algorithm for large multiple knapsack problems. *European Journal of Operational Research* , **1999**, 114, 528-541	5.6	108
13	Linear Time Algorithms for Knapsack Problems with Bounded Weights. *Journal of Algorithms*, **1999**, 33, 1-14		57
12	Exact Solution of the Quadratic Knapsack Problem. *INFORMS Journal on Computing*, **1999**, 11, 125-137	2.4	124
11	A fast algorithm for strongly correlated knapsack problems. *Discrete Applied Mathematics*, **1998**, 89, 197-212	1	15
10	Knapsack Problems **1998**, 299-428		38
9	A Minimal Algorithm for the 0-1 Knapsack Problem. *Operations Research*, **1997**, 45, 758-767	2.3	163
8	Simple but efficient approaches for the collapsing knapsack problem. *Discrete Applied Mathematics*, **1997**, 77, 271-280	1	16

7	An expanding-core algorithm for the exact 01 knapsack problem. *European Journal of Operational Research*, **1995**, 87, 175-187	5.6	96
6	Avoiding anomalies in the mt2 algorithm by Martello and Toth. *European Journal of Operational Research*, **1995**, 82, 206-208	5.6	1
5	Some thoughts on combinatorial optimisation. *European Journal of Operational Research*, **1995**, 83, 253-270	5.6	14
4	A minimal algorithm for the multiple-choice knapsack problem. *European Journal of Operational Research*, **1995**, 83, 394-410	5.6	152
3	A minimal algorithm for the Bounded Knapsack Problem. *Lecture Notes in Computer Science*, **1995**, 95-109	0.9	6
2			3
1	Interactive Cost Configuration Over Decision Diagrams. *Journal of Artificial Intelligence Research*,37, 99-139	4	12