

Walter J Gutjahr

List of Publications by Year in descending order

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90
papers

4,451
citations

136740

32
h-index

106150

65
g-index

92
all docs

92
docs citations

92
times ranked

3078
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk-Averse Bargaining in a Stochastic Optimization Context. <i>Manufacturing and Service Operations Management</i> , 2023, 25, 323-340.	2.3	0
2	A branch-and-Benders-cut algorithm for a bi-objective stochastic facility location problem. <i>OR Spectrum</i> , 2022, 44, 419-459.	2.1	9
3	Stochastic radiotherapy appointment scheduling. <i>Central European Journal of Operations Research</i> , 2022, 30, 1239-1277.	1.1	7
4	Bi-objective Risk-averse Facility Location using a Subset-based Representation of the Conditional Value-at-Risk. , 2022, , .		0
5	Inequity-averse stochastic decision processes. <i>European Journal of Operational Research</i> , 2021, 288, 258-270.	3.5	1
6	Stochastic premarshalling of block stacking warehouses. <i>Omega</i> , 2021, 102, 102336.	3.6	7
7	Innovative approaches in humanitarian operations. <i>OR Spectrum</i> , 2020, 42, 585-589.	2.1	2
8	Uncertainty, economics and optimization: recent developments. <i>Computational Management Science</i> , 2019, 16, 541-543.	0.8	0
9	Stochastic project management: multiple projects with multi-skilled human resources. <i>Journal of Scheduling</i> , 2019, 22, 271-288.	1.3	29
10	Inequity-averse shelter location for disaster preparedness. <i>IIE Transactions</i> , 2019, 51, 809-829.	1.6	33
11	Stochastic Search in Metaheuristics. <i>Profiles in Operations Research</i> , 2019, , 513-540.	0.3	0
12	Equity and deprivation costs in humanitarian logistics. <i>European Journal of Operational Research</i> , 2018, 270, 185-197.	3.5	73
13	A dynamic simulation“ optimization approach for managing mass casualty incidents. <i>Operations Research for Health Care</i> , 2018, 17, 82-100.	0.8	21
14	Sampling-Based Genetic Algorithms for the Bi-Objective Stochastic Covering Tour Problem. <i>Operations Research/ Computer Science Interfaces Series</i> , 2018, , 253-284.	0.3	0
15	Modelling beneficiaries“ choice in disaster relief logistics. <i>Annals of Operations Research</i> , 2017, 256, 41-61.	2.6	56
16	Efficient pairwise preference elicitation allowing for indifference. <i>Computers and Operations Research</i> , 2017, 88, 175-186.	2.4	25
17	Stochastic multi-objective optimization: a survey on non-scalarizing methods. <i>Annals of Operations Research</i> , 2016, 236, 475-499.	2.6	95
18	Bi-objective stochastic programming models for determining depot locations in disaster relief operations. <i>International Transactions in Operational Research</i> , 2016, 23, 997-1023.	1.8	54

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19	Hybrid Metaheuristics for Project Scheduling and Staffing, Considering Project Interruptions and Labor Contracts. <i>Dynamic Modeling and Econometrics in Economics and Finance</i> , 2016, , 349-377.	0.4	1
20	Multicriteria optimization in humanitarian aid. <i>European Journal of Operational Research</i> , 2016, 252, 351-366.	3.5	187
21	Bi-objective bilevel optimization of distribution center locations considering user equilibria. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2016, 85, 1-22.	3.7	86
22	Bi-Objective Multi-Mode Project Scheduling Under Risk Aversion. <i>European Journal of Operational Research</i> , 2015, 246, 421-434.	3.5	33
23	Project Portfolio Selection Under Skill Development. , 2015, , 729-750.		1
24	Using Indifference Information in Robust Ordinal Regression. <i>Lecture Notes in Computer Science</i> , 2015, , 205-217.	1.0	1
25	A math-heuristic for the warehouse location routing problem in disaster relief. <i>Computers and Operations Research</i> , 2014, 42, 25-39.	2.4	175
26	Project portfolio selection under uncertainty with outsourcing opportunities. <i>Flexible Services and Manufacturing Journal</i> , 2013, 25, 255-281.	1.9	24
27	Runtime Analysis of an Evolutionary Algorithm for Stochastic Multi-Objective Combinatorial Optimization. <i>Evolutionary Computation</i> , 2012, 20, 395-421.	2.3	11
28	Training on the project: a quantifying approach to competence development. <i>Knowledge Management Research and Practice</i> , 2012, 10, 64-78.	2.7	4
29	The bi-objective stochastic covering tour problem. <i>Computers and Operations Research</i> , 2012, 39, 1582-1592.	2.4	88
30	Exact hybrid algorithms for solving a bi-objective vehicle routing problem. <i>Central European Journal of Operations Research</i> , 2012, 20, 19-43.	1.1	27
31	Recent trends in metaheuristics for stochastic combinatorial optimization. <i>Open Computer Science</i> , 2011, 1, .	1.3	4
32	Optimal dynamic portfolio selection for projects under a competence development model. <i>OR Spectrum</i> , 2011, 33, 173-206.	2.1	28
33	Special issue on optimization in disaster relief. <i>OR Spectrum</i> , 2011, 33, 445-449.	2.1	14
34	Ant Colony Optimization: Recent Developments in Theoretical Analysis. <i>Theoretical Computer Science</i> , 2011, , 225-254.	1.2	6
35	Dynamic Policy Modeling for Chronic Diseases: Metaheuristic-Based Identification of Pareto-Optimal Screening Strategies. <i>Operations Research</i> , 2010, 58, 1269-1286.	1.2	31
36	Multi-objective decision analysis for competence-oriented project portfolio selection. <i>European Journal of Operational Research</i> , 2010, 205, 670-679.	3.5	104

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37	Stochastic Search in Metaheuristics. Profiles in Operations Research, 2010, , 573-597.	0.3	6
38	A Bi-objective Metaheuristic for Disaster Relief Operation Planning. Studies in Computational Intelligence, 2010, , 167-187.	0.7	46
39	Bi-objective project portfolio selection and staff assignment under uncertainty. Optimization, 2010, 59, 417-445.	1.0	36
40	A survey on metaheuristics for stochastic combinatorial optimization. Natural Computing, 2009, 8, 239-287.	1.8	543
41	A provably convergent heuristic for stochastic bicriteria integer programming. Journal of Heuristics, 2009, 15, 227-258.	1.1	15
42	Multi-criteria location planning for public facilities in tsunami-prone coastal areas. OR Spectrum, 2009, 31, 651-678.	2.1	110
43	A MULTICRITERIA DECISION SUPPORT SYSTEM FOR COMPETENCE-DRIVEN PROJECT PORTFOLIO SELECTION. International Journal of Information Technology and Decision Making, 2009, 08, 379-401.	2.3	50
44	Convergence Analysis of Metaheuristics. Annals of Information Systems, 2009, , 159-187.	0.5	25
45	Runtime Analysis of Ant Colony Optimization with Best-So-Far Reinforcement. Methodology and Computing in Applied Probability, 2008, 10, 409-433.	0.7	70
46	Competence-driven project portfolio selection, scheduling and staff assignment. Central European Journal of Operations Research, 2008, 16, 281-306.	1.1	116
47	First steps to the runtime complexity analysis of ant colony optimization. Computers and Operations Research, 2008, 35, 2711-2727.	2.4	77
48	Stochastic Local Search Procedures for the Probabilistic Two-Day Vehicle Routing Problem. Studies in Computational Intelligence, 2008, , 153-168.	0.7	2
49	Competence-driven project portfolio selection, scheduling and staff assignment. Central European Journal of Operations Research, 2008, 16, 281.	1.1	4
50	An ACO algorithm for a dynamic regional nurse-scheduling problem in Austria. Computers and Operations Research, 2007, 34, 642-666.	2.4	139
51	Multicriteria tour planning for mobile healthcare facilities in a developing country. European Journal of Operational Research, 2007, 179, 1078-1096.	3.5	123
52	Mathematical runtime analysis of ACO algorithms: survey on an emerging issue. Swarm Intelligence, 2007, 1, 59-79.	1.3	50
53	A VNS Algorithm for Noisy Problems and Its Application to Project Portfolio Analysis. Lecture Notes in Computer Science, 2007, , 93-104.	1.0	16
54	Enriched workflow modelling and Stochastic Branch-and-Bound. European Journal of Operational Research, 2006, 175, 1798-1817.	3.5	12

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55	On the Finite-Time Dynamics of Ant Colony Optimization. Methodology and Computing in Applied Probability, 2006, 8, 105-133.	0.7	61
56	Interaction dynamics of two reinforcement learners. Central European Journal of Operations Research, 2006, 14, 59-86.	1.1	0
57	Combined Discrete-event Simulation and Ant Colony Optimisation Approach for Selecting Optimal Screening Policies for Diabetic Retinopathy. Computational Management Science, 2006, 4, 59-83.	0.8	40
58	Pareto ant colony optimization with ILP preprocessing in multiobjective project portfolio selection. European Journal of Operational Research, 2006, 171, 830-841.	3.5	141
59	Two Metaheuristics for Multiobjective Stochastic Combinatorial Optimization. Lecture Notes in Computer Science, 2005, , 116-125.	1.0	17
60	Pareto Ant Colony Optimization: A Metaheuristic Approach to Multiobjective Portfolio Selection. Annals of Operations Research, 2004, 131, 79-99.	2.6	358
61	Extracting Test Sequences from a Markov Software Usage Model by ACO. Lecture Notes in Computer Science, 2003, , 2465-2476.	1.0	28
62	A GENERALIZED CONVERGENCE RESULT FOR THE GRAPH-BASED ANT SYSTEM METAHEURISTIC. Probability in the Engineering and Informational Sciences, 2003, 17, 545-569.	0.6	49
63	A Converging ACO Algorithm for Stochastic Combinatorial Optimization. Lecture Notes in Computer Science, 2003, , 10-25.	1.0	59
64	The move-to-partner rule for self-organizing task allocation on a linear array. Stochastic Models, 2002, 18, 109-137.	0.3	0
65	A branch-and-bound approach to the optimization of redundant software under failure correlation. Computers and Operations Research, 2002, 29, 1773-1791.	2.4	6
66	ACO algorithms with guaranteed convergence to the optimal solution. Information Processing Letters, 2002, 82, 145-153.	0.4	234
67	Using a Reliability Growth Model to Control Software Inspection. Empirical Software Engineering, 2002, 7, 257-284.	3.0	13
68	Crashing of stochastic processes by sampling and optimisation. Business Process Management Journal, 2000, 6, 65-83.	2.4	10
69	Representation and optimization of software usage models with non-Markovian state transitions. Information and Software Technology, 2000, 42, 873-887.	3.0	8
70	A Graph-based Ant System and its convergence. Future Generation Computer Systems, 2000, 16, 873-888.	4.9	316
71	Software dependability evaluation based on Markov usage models. Performance Evaluation, 2000, 40, 199-222.	0.9	40
72	Optimal stochastic single-machine-tardiness scheduling by stochastic branch-and-bound. European Journal of Operational Research, 1999, 117, 396-413.	3.5	31

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73	Partition testing vs. random testing: the influence of uncertainty. IEEE Transactions on Software Engineering, 1999, 25, 661-674.	4.3	103
74	Importance Sampling of Test Cases in Markovian Software Usage Models. Probability in the Engineering and Informational Sciences, 1997, 11, 19-36.	0.6	19
75	An improved algorithm for finding minimum-risk 3-state-device networks. International Journal of Computer Mathematics, 1997, 64, 59-72.	1.0	0
76	Failure Risk Estimation via Markov Software Usage Models. , 1997, , 183-192.		3
77	Configurations of series-parallel networks with maximum reliability. Microelectronics Reliability, 1996, 36, 247-253.	0.9	11
78	Simulated Annealing for noisy cost functions. Journal of Global Optimization, 1996, 8, 1.	1.1	93
79	Estimating qualifications in a self-evaluating group. Quality and Quantity, 1995, 29, 241-250.	2.0	7
80	Optimal test distributions for software failure cost estimation. IEEE Transactions on Software Engineering, 1995, 21, 219-228.	4.3	33
81	Test Point Optimization in a Branching-Process-Based Reliability Model. Probability in the Engineering and Informational Sciences, 1994, 8, 591-609.	0.6	0
82	Connection reliabilities in stochastic acyclic networks. Random Structures and Algorithms, 1994, 5, 57-72.	0.6	1
83	A global optimization problem in series-parallel networks with maximum reliability. Journal of Global Optimization, 1994, 5, 403-404.	1.1	2
84	The dynamics of self-evaluation. Applied Mathematics and Computation, 1994, 64, 47-63.	1.4	3
85	Expectation transfer between branching processes and random trees. Random Structures and Algorithms, 1993, 4, 447-467.	0.6	4
86	The Variance of Level Numbers in Certain Families of Trees. Random Structures and Algorithms, 1992, 3, 361-374.	0.6	3
87	The asymptotic distribution of leaf heights in binary trees. Graphs and Combinatorics, 1992, 8, 243-251.	0.2	5
88	The asymptotic contour process of a binary tree is a Brownian excursion. Stochastic Processes and Their Applications, 1992, 41, 69-89.	0.4	22
89	Uniform random generation of expressions respecting algebraic identities. Computing (Vienna/New) Tj ETQq1 1 0.784314 rgBT /Over 3.2 82		
90	Bi-objective facility location under uncertainty with an application in last-mile disaster relief. Annals of Operations Research, 0, , 1.	2.6	4