

# Walter J Gutjahr

## List of Publications by Year in descending order

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90  
papers

4,451  
citations

136950

32  
h-index

106344

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. Manufacturing and Service Operations Management, 2023, 25, 323-340.  | 3.7 | 0         |
| 2  | A branch-and-Benders-cut algorithm for a bi-objective stochastic facility location problem. OR Spectrum, 2022, 44, 419-459.   | 3.4 | 9         |
| 3  | Stochastic radiotherapy appointment scheduling. Central European Journal of Operations Research, 2022, 30, 1239-1277.   | 1.8 | 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. European Journal of Operational Research, 2021, 288, 258-270.  | 5.7 | 1         |
| 6  | Stochastic premarshalling of block stacking warehouses. Omega, 2021, 102, 102336.   | 5.9 | 7         |
| 7  | Innovative approaches in humanitarian operations. OR Spectrum, 2020, 42, 585-589.   | 3.4 | 2         |
| 8  | Uncertainty, economics and optimization: recent developments. Computational Management Science, 2019, 16, 541-543.  | 1.3 | 0         |
| 9  | Stochastic project management: multiple projects with multi-skilled human resources. Journal of Scheduling, 2019, 22, 271-288.  | 1.9 | 29        |
| 10 | Inequity-averse shelter location for disaster preparedness. IIE Transactions, 2019, 51, 809-829.  | 2.4 | 33        |
| 11 | Stochastic Search in Metaheuristics. Profiles in Operations Research, 2019, , 513-540.  | 0.4 | 0         |
| 12 | Equity and deprivation costs in humanitarian logistics. European Journal of Operational Research, 2018, 270, 185-197.   | 5.7 | 73        |
| 13 | A dynamic simulation“optimization approach for managing mass casualty incidents. Operations Research for Health Care, 2018, 17, 82-100.   | 1.2 | 21        |
| 14 | Sampling-Based Genetic Algorithms for the Bi-Objective Stochastic Covering Tour Problem. Operations Research/ Computer Science Interfaces Series, 2018, , 253-284.                | 0.3 | 0         |
| 15 | Modelling beneficiaries“™ choice in disaster relief logistics. Annals of Operations Research, 2017, 256, 41-61.   | 4.1 | 56        |
| 16 | Efficient pairwise preference elicitation allowing for indifference. Computers and Operations Research, 2017, 88, 175-186.  | 4.0 | 25        |
| 17 | Stochastic multi-objective optimization: a survey on non-scalarizing methods. Annals of Operations Research, 2016, 236, 475-499.  | 4.1 | 95        |
| 18 | Bi-Objective stochastic programming models for determining depot locations in disaster relief operations. International Transactions in Operational Research, 2016, 23, 997-1023. | 2.7 | 54        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Hybrid Metaheuristics for Project Scheduling and Staffing, Considering Project Interruptions and Labor Contracts. Dynamic Modeling and Econometrics in Economics and Finance, 2016, , 349-377. | 0.5 | 1         |
| 20 | Multicriteria optimization in humanitarian aid. European Journal of Operational Research, 2016, 252, 351-366.  | 5.7 | 187       |
| 21 | Bi-objective bilevel optimization of distribution center locations considering user equilibria. Transportation Research, Part E: Logistics and Transportation Review, 2016, 85, 1-22.          | 7.4 | 86        |
| 22 | Bi-Objective Multi-Mode Project Scheduling Under Risk Aversion. European Journal of Operational Research, 2015, 246, 421-434.  | 5.7 | 33        |
| 23 | Project Portfolio Selection Under Skill Development. , 2015, , 729-750.  |     | 1         |
| 24 | Using Indifference Information in Robust Ordinal Regression. Lecture Notes in Computer Science, 2015, , 205-217.   | 1.3 | 1         |
| 25 | A math-heuristic for the warehouse location“routing problem in disaster relief. Computers and Operations Research, 2014, 42, 25-39.  | 4.0 | 175       |
| 26 | Project portfolio selection under uncertainty with outsourcing opportunities. Flexible Services and Manufacturing Journal, 2013, 25, 255-281.  | 3.4 | 24        |
| 27 | Runtime Analysis of an Evolutionary Algorithm for Stochastic Multi-Objective Combinatorial Optimization. Evolutionary Computation, 2012, 20, 395-421.  | 3.0 | 11        |
| 28 | Training on the project: a quantifying approach to competence development. Knowledge Management Research and Practice, 2012, 10, 64-78.  | 4.1 | 4         |
| 29 | The bi-objective stochastic covering tour problem. Computers and Operations Research, 2012, 39, 1582-1592.   | 4.0 | 88        |
| 30 | Exact hybrid algorithms for solving a bi-objective vehicle routing problem. Central European Journal of Operations Research, 2012, 20, 19-43.  | 1.8 | 27        |
| 31 | Recent trends in metaheuristics for stochastic combinatorial optimization. Open Computer Science, 2011, 1, .   | 1.7 | 4         |
| 32 | Optimal dynamic portfolio selection for projects under a competence development model. OR Spectrum, 2011, 33, 173-206.   | 3.4 | 28        |
| 33 | Special issue on optimization in disaster relief. OR Spectrum, 2011, 33, 445-449.  | 3.4 | 14        |
| 34 | Ant Colony Optimization: Recent Developments in Theoretical Analysis. Theoretical Computer Science, 2011, , 225-254.   | 1.2 | 6         |
| 35 | Dynamic Policy Modeling for Chronic Diseases: Metaheuristic-Based Identification of Pareto-Optimal Screening Strategies. Operations Research, 2010, 58, 1269-1286.                             | 1.9 | 31        |
| 36 | Multi-objective decision analysis for competence-oriented project portfolio selection. European Journal of Operational Research, 2010, 205, 670-679.   | 5.7 | 104       |

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|----|--|-----|-----------|
| 37 | Stochastic Search in Metaheuristics. Profiles in Operations Research, 2010, , 573-597.   | 0.4 | 6         |
| 38 | A Bi-objective Metaheuristic for Disaster Relief Operation Planning. Studies in Computational Intelligence, 2010, , 167-187.   | 0.9 | 46        |
| 39 | Bi-objective project portfolio selection and staff assignment under uncertainty. Optimization, 2010, 59, 417-445.  | 1.7 | 36        |
| 40 | A survey on metaheuristics for stochastic combinatorial optimization. Natural Computing, 2009, 8, 239-287.   | 3.0 | 543       |
| 41 | A provably convergent heuristic for stochastic bicriteria integer programming. Journal of Heuristics, 2009, 15, 227-258.   | 1.4 | 15        |
| 42 | Multi-criteria location planning for public facilities in tsunami-prone coastal areas. OR Spectrum, 2009, 31, 651-678.   | 3.4 | 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. | 3.9 | 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.                                   | 1.2 | 70        |
| 46 | Competence-driven project portfolio selection, scheduling and staff assignment. Central European Journal of Operations Research, 2008, 16, 281-306.                                | 1.8 | 116       |
| 47 | First steps to the runtime complexity analysis of ant colony optimization. Computers and Operations Research, 2008, 35, 2711-2727.   | 4.0 | 77        |
| 48 | Stochastic Local Search Procedures for the Probabilistic Two-Day Vehicle Routing Problem. Studies in Computational Intelligence, 2008, , 153-168.                                  | 0.9 | 2         |
| 49 | Competence-driven project portfolio selection, scheduling and staff assignment. Central European Journal of Operations Research, 2008, 16, 281.                                    | 1.8 | 4         |
| 50 | An ACO algorithm for a dynamic regional nurse-scheduling problem in Austria. Computers and Operations Research, 2007, 34, 642-666.   | 4.0 | 139       |
| 51 | Multicriteria tour planning for mobile healthcare facilities in a developing country. European Journal of Operational Research, 2007, 179, 1078-1096.                              | 5.7 | 123       |
| 52 | Mathematical runtime analysis of ACO algorithms: survey on an emerging issue. Swarm Intelligence, 2007, 1, 59-79.  | 2.2 | 50        |
| 53 | A VNS Algorithm for Noisy Problems and Its Application to Project Portfolio Analysis. Lecture Notes in Computer Science, 2007, , 93-104.   | 1.3 | 16        |
| 54 | Enriched workflow modelling and Stochastic Branch-and-Bound. European Journal of Operational Research, 2006, 175, 1798-1817.   | 5.7 | 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.  | 1.2 | 61        |
| 56 | Interaction dynamics of two reinforcement learners. Central European Journal of Operations Research, 2006, 14, 59-86.  | 1.8 | 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. | 1.3 | 40        |
| 58 | Pareto ant colony optimization with ILP preprocessing in multiobjective project portfolio selection. European Journal of Operational Research, 2006, 171, 830-841.                           | 5.7 | 141       |
| 59 | Two Metaheuristics for Multiobjective Stochastic Combinatorial Optimization. Lecture Notes in Computer Science, 2005, , 116-125.   | 1.3 | 17        |
| 60 | Pareto Ant Colony Optimization: A Metaheuristic Approach to Multiobjective Portfolio Selection. Annals of Operations Research, 2004, 131, 79-99.   | 4.1 | 358       |
| 61 | Extracting Test Sequences from a Markov Software Usage Model by ACO. Lecture Notes in Computer Science, 2003, , 2465-2476.   | 1.3 | 28        |
| 62 | A GENERALIZED CONVERGENCE RESULT FOR THE GRAPH-BASED ANT SYSTEM METAHEURISTIC. Probability in the Engineering and Informational Sciences, 2003, 17, 545-569.                                 | 0.8 | 49        |
| 63 | A Converging ACO Algorithm for Stochastic Combinatorial Optimization. Lecture Notes in Computer Science, 2003, , 10-25.  | 1.3 | 59        |
| 64 | The move-to-partner rule for self-organizing task allocation on a linear array. Stochastic Models, 2002, 18, 109-137.  | 0.5 | 0         |
| 65 | A branch-and-bound approach to the optimization of redundant software under failure correlation. Computers and Operations Research, 2002, 29, 1773-1791.                                     | 4.0 | 6         |
| 66 | ACO algorithms with guaranteed convergence to the optimal solution. Information Processing Letters, 2002, 82, 145-153.   | 0.6 | 234       |
| 67 | Using a Reliability Growth Model to Control Software Inspection. Empirical Software Engineering, 2002, 7, 257-284.   | 3.9 | 13        |
| 68 | Crashing of stochastic processes by sampling and optimisation. Business Process Management Journal, 2000, 6, 65-83.  | 4.2 | 10        |
| 69 | Representation and optimization of software usage models with non-Markovian state transitions. Information and Software Technology, 2000, 42, 873-887.                                       | 4.4 | 8         |
| 70 | A Graph-based Ant System and its convergence. Future Generation Computer Systems, 2000, 16, 873-888.   | 7.5 | 316       |
| 71 | Software dependability evaluation based on Markov usage models. Performance Evaluation, 2000, 40, 199-222.   | 1.2 | 40        |
| 72 | Optimal stochastic single-machine-tardiness scheduling by stochastic branch-and-bound. European Journal of Operational Research, 1999, 117, 396-413.   | 5.7 | 31        |

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|----|--|-----|-----------|
| 73 | Partition testing vs. random testing: the influence of uncertainty. IEEE Transactions on Software Engineering, 1999, 25, 661-674.                    | 5.6 | 103       |
| 74 | Importance Sampling of Test Cases in Markovian Software Usage Models. Probability in the Engineering and Informational Sciences, 1997, 11, 19-36.    | 0.8 | 19        |
| 75 | An improved algorithm for finding minimum-risk 3-state-device networks. International Journal of Computer Mathematics, 1997, 64, 59-72.              | 1.8 | 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.                                | 1.7 | 11        |
| 78 | Simulated Annealing for noisy cost functions. Journal of Global Optimization, 1996, 8, 1.  | 1.8 | 93        |
| 79 | Estimating qualifications in a self-evaluating group. Quality and Quantity, 1995, 29, 241-250.   | 3.7 | 7         |
| 80 | Optimal test distributions for software failure cost estimation. IEEE Transactions on Software Engineering, 1995, 21, 219-228.                       | 5.6 | 33        |
| 81 | Test Point Optimization in a Branching-Process-Based Reliability Model. Probability in the Engineering and Informational Sciences, 1994, 8, 591-609. | 0.8 | 0         |
| 82 | Connection reliabilities in stochastic acyclic networks. Random Structures and Algorithms, 1994, 5, 57-72.   | 1.1 | 1         |
| 83 | A global optimization problem in series-parallel networks with maximum reliability. Journal of Global Optimization, 1994, 5, 403-404.                | 1.8 | 2         |
| 84 | The dynamics of self-evaluation. Applied Mathematics and Computation, 1994, 64, 47-63.   | 2.2 | 3         |
| 85 | Expectation transfer between branching processes and random trees. Random Structures and Algorithms, 1993, 4, 447-467.                               | 1.1 | 4         |
| 86 | The Variance of Level Numbers in Certain Families of Trees. Random Structures and Algorithms, 1992, 3, 361-374.                                      | 1.1 | 3         |
| 87 | The asymptotic distribution of leaf heights in binary trees. Graphs and Combinatorics, 1992, 8, 243-251.   | 0.4 | 5         |
| 88 | The asymptotic contour process of a binary tree is a Brownian excursion. Stochastic Processes and Their Applications, 1992, 41, 69-89.               | 0.9 | 22        |
| 89 | Uniform random generation of expressions respecting algebraic identities. Computing (Vienna/New) Tj ETQq1 1 0.784314 rgBT /Overbo                    | 4.8 | 82        |
| 90 | Bi-objective facility location under uncertainty with an application in last-mile disaster relief. Annals of Operations Research, 0, , 1.            | 4.1 | 4         |