

# Ambros M Gleixner

## List of Publications by Year in descending order

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33  
papers

891  
citations

840776

11  
h-index

501196

28  
g-index

35  
all docs

35  
docs citations

35  
times ranked

769  
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational status update for exact rational mixed integer programming. <i>Mathematical Programming</i> , 2023, 197, 793-812.	2.4	5
2	On generalized surrogate duality in mixed-integer nonlinear programming. <i>Mathematical Programming</i> , 2022, 192, 89-118.	2.4	2
3	A massively parallel interior-point solver for LPs with generalized arrowhead structure, and applications to energy system models. <i>European Journal of Operational Research</i> , 2022, 296, 60-71.	5.7	8
4	Accelerating domain propagation: An efficient GPU-parallel algorithm over sparse matrices. <i>Parallel Computing</i> , 2022, 109, 102874.	2.1	2
5	A Safe Computational Framework for Integer Programming Applied to Chvátal's Conjecture. <i>ACM Transactions on Mathematical Software</i> , 2022, 48, 1-12.	2.9	1
6	MIPLIB 2017: data-driven compilation of the 6th mixed-integer programming library. <i>Mathematical Programming Computation</i> , 2021, 13, 443-490.	4.8	63
7	Learn to relax: Integrating 0-1 integer linear programming with pseudo-Boolean conflict-driven search. <i>Constraints</i> , 2021, 26, 26-55.	0.7	4
8	A Computational Status Update for Exact Rational Mixed Integer Programming. <i>Lecture Notes in Computer Science</i> , 2021, , 163-177.	1.3	2
9	Price-and-verify: a new algorithm for recursive circle packing using Dantzig-Wolfe decomposition. <i>Annals of Operations Research</i> , 2020, 284, 527-555.	4.1	3
10	Linear programming using limited-precision oracles. <i>Mathematical Programming</i> , 2020, 183, 525-554.	2.4	5
11	Conflict-Driven Heuristics for Mixed Integer Programming. <i>INFORMS Journal on Computing</i> , 2020, , .	1.7	4
12	Two-row and two-column mixed-integer presolve using hashing-based pairing methods. <i>EURO Journal on Computational Optimization</i> , 2020, 8, 205-240.	2.4	7
13	On the relation between the extended supporting hyperplane algorithm and Kelley's cutting plane algorithm. <i>Journal of Global Optimization</i> , 2020, 78, 161-179.	1.8	3
14	Using Two-Dimensional Projections for Stronger Separation and Propagation of Bilinear Terms. <i>SIAM Journal on Optimization</i> , 2020, 30, 1339-1365.	2.0	5
15	On Generalized Surrogate Duality in Mixed-Integer Nonlinear Programming. <i>Lecture Notes in Computer Science</i> , 2020, , 322-337.	1.3	1
16	Solving quadratic programs to high precision using scaled iterative refinement. <i>Mathematical Programming Computation</i> , 2019, 11, 421-455.	4.8	2
17	QPLIB: a library of quadratic programming instances. <i>Mathematical Programming Computation</i> , 2019, 11, 237-265.	4.8	38
18	Linear Programming Using Limited-Precision Oracles. <i>Lecture Notes in Computer Science</i> , 2019, , 399-412.	1.3	0

#	ARTICLE	IF	CITATIONS
19	Mixed-Integer Programming for Cycle Detection in Nonreversible Markov Processes. Multiscale Modeling and Simulation, 2018, 16, 248-265.	1.6	2
20	SCIP: global optimization of mixed-integer nonlinear programs in a branch-and-cut framework. Optimization Methods and Software, 2018, 33, 563-593.	2.4	116
21	Three enhancements for optimization-based bound tightening. Journal of Global Optimization, 2017, 67, 731-757.	1.8	51
22	Verifying Integer Programming Results. Lecture Notes in Computer Science, 2017, , 148-160.	1.3	14
23	Iterative Refinement for Linear Programming. INFORMS Journal on Computing, 2016, 28, 449-464.	1.7	31
24	Towards an Accurate Solution of Wireless Network Design Problems. Lecture Notes in Computer Science, 2016, , 135-147.	1.3	5
25	Branching on Multi-aggregated Variables. Lecture Notes in Computer Science, 2015, , 141-156.	1.3	3
26	Undercover: a primal MINLP heuristic exploring a largest sub-MIP. Mathematical Programming, 2014, 144, 315-346.	2.4	25
27	Learning and Propagating Lagrangian Variable Bounds for Mixed-Integer Nonlinear Programming. Lecture Notes in Computer Science, 2013, , 355-361.	1.3	6
28	Undercover Branching. Lecture Notes in Computer Science, 2013, , 212-223.	1.3	0
29	Improving the accuracy of linear programming solvers with iterative refinement. , 2012, , .		18
30	Towards globally optimal operation of water supply networks. Numerical Algebra, Control and Optimization, 2012, 2, 695-711.	1.6	48
31	Analyzing the computational impact of MIQCP solver components. Numerical Algebra, Control and Optimization, 2012, 2, 739-748.	1.6	14
32	MIPLIB 2010. Mathematical Programming Computation, 2011, 3, 103-163.	4.8	275
33	LP-based disaggregation approaches to solving the open pit mining production scheduling problem with block processing selectivity. Computers and Operations Research, 2009, 36, 1064-1089.	4.0	119