Monique Laurent

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1664613/publications.pdf

Version: 2024-02-01

72	2,607	236925	206112
papers	citations	25 h-index	48 g-index

73	73	73	976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sum-of-squares hierarchies for binary polynomial optimization. Mathematical Programming, 2023, 197, 621-660.	2.4	9
2	Convergence analysis of a Lasserre hierarchy of upper bounds for polynomial minimization on the sphere. Mathematical Programming, 2022, 193, 665-685.	2.4	18
3	Improved convergence analysis of Lasserreâ€™s measure-based upper bounds for polynomial minimization on compact sets. Mathematical Programming, 2022, 193, 831-871.	2.4	17
4	Bounding the separable rank via polynomial optimization. Linear Algebra and Its Applications, 2022, 648, 1-55.	0.9	3
5	Near-optimal analysis of Lasserreâ€™s univariate measure-based bounds for multivariate polynomial optimization. Mathematical Programming, 2021, 188, 443-460.	2.4	7
6	Sum-of-Squares Hierarchies for Binary Polynomial Optimization. Lecture Notes in Computer Science, 2021, , 43-57.	1.3	4
7	Perfect elimination orderings for symmetric matrices. Optimization Letters, 2020, 14, 339-353.	1.6	1
8	Worst-Case Examples for Lasserreâ€™s Measureâ€“Based Hierarchy for Polynomial Optimization on the Hypercube. Mathematics of Operations Research, 2020, 45, 86-98.	1.3	15
9	Lower Bounds on Matrix Factorization Ranks via Noncommutative Polynomial Optimization. Foundations of Computational Mathematics, 2019, 19, 1013-1070.	2.5	13
10	A Survey of Semidefinite Programming Approaches to the Generalized Problem of Moments and Their Error Analysis. Association for Women in Mathematics Series, 2019, , 17-56.	0.4	11
11	Bounds on entanglement dimensions and quantum graph parameters via noncommutative polynomial optimization. Mathematical Programming, 2018, 170, 5-42.	2.4	9
12	Comparison of Lasserreâ€™s Measure-Based Bounds for Polynomial Optimization to Bounds Obtained by Simulated Annealing. Mathematics of Operations Research, 2018, 43, 1317-1325.	1.3	9
13	On the convergence rate of grid search for polynomial optimization over the simplex. Optimization Letters, 2017, 11, 597-608.	1.6	4
14	Improved Convergence Rates for Lasserre-Type Hierarchies of Upper Bounds for Box-Constrained Polynomial Optimization. SIAM Journal on Optimization, 2017, 27, 347-367.	2.0	15
15	A Lex-BFS-based recognition algorithm for Robinsonian matrices. Discrete Applied Mathematics, 2017, 222, 151-165.	0.9	11
16	Bound-Constrained Polynomial Optimization Using Only Elementary Calculations. Mathematics of Operations Research, 2017, 42, 834-853.	1.3	12
17	Similarity-First Search: A New Algorithm with Application to Robinsonian Matrix Recognition. SIAM Journal on Discrete Mathematics, 2017, 31, 1765-1800.	0.8	14
18	Convergence analysis for Lasserreâ€™s measure-based hierarchy of upper bounds for polynomial optimization. Mathematical Programming, 2017, 162, 363-392.	2.4	17

#	Article	IF	Citations
19	Matrices with high completely positive semidefinite rank. Linear Algebra and Its Applications, 2017, 513, 122-148.	0.9	16
20	A Structural Characterization for Certifying Robinsonian Matrices. Electronic Journal of Combinatorics, 2017, 24, .	0.4	6
21	Conic Approach to Quantum Graph Parameters Using Linear Optimization Over the Completely Positive Semidefinite Cone. SIAM Journal on Optimization, 2015, 25, 2461-2493.	2.0	33
22	The quadratic assignment problem is easy for Robinsonian matrices with Toeplitz structure. Operations Research Letters, 2015, 43, 103-109.	0.7	19
23	An alternative proof of a PTAS for fixed-degree polynomial optimization over the simplex. Mathematical Programming, 2015, 151, 433-457.	2.4	12
24	An Error Analysis for Polynomial Optimization over the Simplex Based on the Multivariate Hypergeometric Distribution. SIAM Journal on Optimization, 2015, 25, 1498-1514.	2.0	10
25	Handelmanâ€™s hierarchy for the maximum stable set problem. Journal of Global Optimization, 2014, 60, 393-423.	1.8	3
26	A new graph parameter related to bounded rank positive semidefinite matrix completions. Mathematical Programming, 2014, 145, 291-325.	2.4	26
27	Forbidden minor characterizations for low-rank optimal solutions to semidefinite programs over the elliptope. Journal of Combinatorial Theory Series B, 2014, 108, 40-80.	1.0	5
28	Moment matrices, border bases and real radical computation. Journal of Symbolic Computation, 2013, 51, 63-85.	0.8	24
29	Complexity of the Positive Semidefinite Matrix Completion Problem with a Rank Constraint. Fields Institute Communications, 2013, , 105-120.	1.3	5
30	The Approach of Moments for Polynomial Equations. Profiles in Operations Research, 2012, , 25-60.	0.4	5
31	On the Lasserre Hierarchy of Semidefinite Programming Relaxations of Convex Polynomial Optimization Problems. SIAM Journal on Optimization, 2011, 21, 824-832.	2.0	35
32	On Leonid Gurvitsâ€™s Proof for Permanents. American Mathematical Monthly, 2010, 117, 903.	0.3	17
33	Error Bounds for Some Semidefinite Programming Approaches to Polynomial Minimization on the Hypercube. SIAM Journal on Optimization, 2010, 20, 3104-3120.	2.0	33
34	A generalized flat extension theorem for moment matrices. Archiv Der Mathematik, 2009, 93, 87-98.	0.5	30
35	Block-diagonal semidefinite programming hierarchies for 0/1 programming. Operations Research Letters, 2009, 37, 27-31.	0.7	8
36	A prolongationâ€“projection algorithm for computing the finite real variety of an ideal. Theoretical Computer Science, 2009, 410, 2685-2700.	0.9	13

#	Article	IF	Citations
37	Sums of Squares, Moment Matrices and Optimization Over Polynomials. The IMA Volumes in Mathematics and Its Applications, 2009, , 157-270.	0.5	342
38	Semidefinite Characterization and Computation of Zero-Dimensional Real Radical Ideals. Foundations of Computational Mathematics, 2008, 8, 607-647.	2.5	77
39	The Operator Psi for the Chromatic Number of a Graph. SIAM Journal on Optimization, 2008, 19, 572-591.	2.0	46
40	Computing Semidefinite Programming Lower Bounds for the (Fractional) Chromatic Number Via Block-Diagonalization. SIAM Journal on Optimization, 2008, 19, 592-615.	2.0	18
41	Semidefinite representations for finite varieties. Mathematical Programming, 2007, 109, 1-26.	2.4	52
42	Strengthened semidefinite programming bounds for codes. Mathematical Programming, 2007, 109, 239-261.	2.4	34
43	Semidefinite bounds for the stability number of a graph via sums of squares of polynomials. Mathematical Programming, 2007, 110, 145-173.	2.4	21
44	A PTAS for the minimization of polynomials of fixed degree over the simplex. Theoretical Computer Science, 2006, 361, 210-225.	0.9	67
45	Revisiting two theorems of Curto and Fialkow on moment matrices. Proceedings of the American Mathematical Society, 2005, 133, 2965-2976.	0.8	61
46	Semidefinite Approximations for Global Unconstrained Polynomial Optimization. SIAM Journal on Optimization, 2005, 16, 490-514.	2.0	39
47	Semidefinite Programming and Integer Programming. Handbooks in Operations Research and Management Science, 2005, 12, 393-514.	0.6	80
48	A Comparison of the Sherali-Adams, LovÃ¡sz-Schrijver, and Lasserre Relaxations for 0â€“1 Programming. Mathematics of Operations Research, 2003, 28, 470-496.	1.3	251
49	Lower Bound for the Number of Iterations in Semidefinite Hierarchies for the Cut Polytope. Mathematics of Operations Research, 2003, 28, 871-883.	1.3	38
50	Tighter Linear and Semidefinite Relaxations for Max-Cut Based on the LovÃ¡sz--Schrijver Lift-and-Project Procedure. SIAM Journal on Optimization, 2002, 12, 345-375.	2.0	20
51	Polynomial Instances of the Positive Semidefinite and Euclidean Distance Matrix Completion Problems. SIAM Journal on Matrix Analysis and Applications, 2001, 22, 874-894.	1.4	30
52	On the Sparsity Order of a Graph and Its Deficiency in Chordality. Combinatorica, 2001, 21, 543-570.	1.2	12
53	Equilateral Dimension of the Rectilinear Space. Designs, Codes, and Cryptography, 2000, 21, 149-164.	1.6	13
54	A connection between positive semidefinite and euclidean distance matrix completion problems. Linear Algebra and Its Applications, 1998, 273, 9-22.	0.9	33

#	Article	IF	Citations
55	The real positive semidefinite completion problem for series-parallel graphs. Linear Algebra and Its Applications, 1997, 252, 347-366.	0.9	32
56	Geometry of Cuts and Metrics. Algorithms and Combinatorics, 1997, , .	0.6	533
57	On the Facial Structure of the Set of Correlation Matrices. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 530-547.	1.4	49
58	Graphic vertices of the metric polytope. Discrete Mathematics, 1996, 151, 131-153.	0.7	16
59	Hilbert bases of cuts. Discrete Mathematics, 1996, 150, 257-279.	0.7	5
60	Gap Inequalities for the Cut Polytope. European Journal of Combinatorics, 1996, 17, 233-254.	0.8	16
61	Collapsing and lifting for the cut cone. Discrete Mathematics, 1994, 127, 105-130.	0.7	14
62	Applications of cut polyhedra â€" II. Journal of Computational and Applied Mathematics, 1994, 55, 217-247.	2.0	33
63	The inequicut cone. Discrete Mathematics, 1993, 119, 21-48.	0.7	10
64	The even and odd cut polytopes. Discrete Mathematics, 1993, 119, 49-66.	0.7	8
65	The cut cone III: On the role of triangle facets. Graphs and Combinatorics, 1993, 9, 135-152.	0.4	6
66	The cut cone III: On the role of triangle facets. Graphs and Combinatorics, 1992, 8, 125-142.	0.4	14
67	Facets for the cut cone I. Mathematical Programming, 1992, 56, 121-160.	2.4	47
68	Facets for the cut cone II: Clique-web inequalities. Mathematical Programming, 1992, 56, 161-188.	2.4	29
69	A generalization of antiwebs to independence systems and their canonical facets. Mathematical Programming, 1989, 45, 97-108.	2.4	35
70	On the Facial Structure of Independence System Polyhedra. Mathematics of Operations Research, 1988, 13, 543-555.	1.3	12
71	On the Equivalence of Algebraic Approaches to the Minimization of Forms on the Simplex. Lecture Notes in Control and Information Sciences, 0, , 121-132.	1.0	15
72	On the closure of the completely positive semidefinite cone and linear approximations to quantum colorings. Electronic Journal of Linear Algebra, 0, 32, 15-40.	0.6	5