Self-Scaled Barriers and Interior-Point Methods for Cor

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Citation Report

#	Article	IF	CITATIONS
1	Applied Mathematics and Mechanics. Applied Mathematical Sciences (Switzerland), 1958, 3, ii.	0.4	0
2	Semidefinite Programming: A Path-Following Algorithm for a Linear–Quadratic Functional. SIAM Journal on Optimization, 1996, 6, 1007-1024.	1.2	13
3	Barrier Functions in Interior Point Methods. Mathematics of Operations Research, 1996, 21, 860-885.	0.8	142
4	Hyperbolic Polynomials and Interior Point Methods for Convex Programming. Mathematics of Operations Research, 1997, 22, 350-377.	0.8	89
5	Algorithms and software for LMI problems in control. IEEE Control Systems, 1997, 17, 89-95.	1.0	51
6	PrimalDual Path-Following Algorithms for Semidefinite Programming. SIAM Journal on Optimization, 1997, 7, 663-678.	1.2	240
7	On the Self-Concordance of the Universal Barrier Function. SIAM Journal on Optimization, 1997, 7, 295-303.	1.2	11
8	An Efficient Algorithm for Minimizing a Sum of Euclidean Norms with Applications. SIAM Journal on Optimization, 1997, 7, 1017-1036.	1.2	90
9	Interior-point methods: An old and new approach to nonlinear programming. Mathematical Programming, 1997, 79, 285-297.	1.6	9
10	A unified analysis for a class of long-step primal-dual path-following interior-point algorithms for semidefinite programming. Mathematical Programming, 1998, 81, 281-299.	1.6	79
11	Characterization of the barrier parameter of homogeneous convex cones. Mathematical Programming, 1998, 81, 55-76.	1.6	33
12	Affine scaling algorithm fails for semidefinite programming. Mathematical Programming, 1998, 83, 393-406.	1.6	4
13	Applications of second-order cone programming. Linear Algebra and Its Applications, 1998, 284, 193-228.	0.4	1,924
14	On the long-step path-following method for semidefinite programming. Operations Research Letters, 1998, 22, 145-150.	0.5	6
15	Primal-Dual Interior-Point Methods for Semidefinite Programming: Convergence Rates, Stability and Numerical Results. SIAM Journal on Optimization, 1998, 8, 746-768.	1.2	339
16	Superlinear Convergence of a Symmetric Primal-Dual Path Following Algorithm for Semidefinite Programming. SIAM Journal on Optimization, 1998, 8, 59-81.	1.2	73
17	Polynomial Convergence of Primal-Dual Algorithms for Semidefinite Programming Based on the Monteiro and Zhang Family of Directions. SIAM Journal on Optimization, 1998, 8, 797-812.	1.2	55
18	Interior Point Trajectories in Semidefinite Programming. SIAM Journal on Optimization, 1998, 8, 871-886.	1.2	48

ATION RED

#	Article	IF	CITATIONS
19	Primal-Dual Interior-Point Methods for Self-Scaled Cones. SIAM Journal on Optimization, 1998, 8, 324-364.	1.2	400
20	Optimal Truss Design by Interior-Point Methods. SIAM Journal on Optimization, 1998, 8, 1084-1107.	1.2	60
21	Monotonicity of primal–dual interior-point algorithms for semidefinite programming problems. Optimization Methods and Software, 1998, 10, 275-296.	1.6	2
22	Search directions and convergence analysis of some infeasibnle path-following methods for the monoton semi-definite lcp ^{â^—} . Optimization Methods and Software, 1998, 9, 245-268.	1.6	25
23	On the NesterovTodd Direction in Semidefinite Programming. SIAM Journal on Optimization, 1998, 8, 769-796.	1.2	199
24	Requirements and hard computational bounds for real-time optimization in safety-critical control systems. , 0, , .		7
25	On Two Interior-Point Mappings for Nonlinear Semidefinite Complementarity Problems. Mathematics of Operations Research, 1998, 23, 39-60.	0.8	26
26	Primal-Dual Symmetry and Scale Invariance of Interior-Point Algorithms for Convex Optimization. Mathematics of Operations Research, 1998, 23, 708-718.	0.8	19
27	Implementation of primal-dual methods for semidefinite programming based on Monteiro and Tsuchiya Newton directions and their variants. Optimization Methods and Software, 1999, 11, 91-140.	1.6	21
28	Symmetric primal-dual path-following algorithms for semidefinite programming. Applied Numerical Mathematics, 1999, 29, 301-315.	1.2	38
29	Polynomial primal-dual cone affine scaling for semidefinite programming. Applied Numerical Mathematics, 1999, 29, 317-333.	1.2	4
30	Primal-dual potential reduction methods for semidefinite programming using affine-scaling directions. Applied Numerical Mathematics, 1999, 29, 335-360.	1.2	1
31	Infeasible-start primal-dual methods and infeasibility detectors for nonlinear programming problems. Mathematical Programming, 1999, 84, 227-267.	1.6	66
32	Polynomiality of primal-dual algorithms for semidefinite linear complementarity problems based on the Kojima-Shindoh-Hara family of directions. Mathematical Programming, 1999, 84, 39-53.	1.6	15
33	On long-step predictor-corrector interior-point algorithm for semidefinite programming with Monteiro-Zhang unified search directions. Optimization Methods and Software, 1999, 11, 53-66.	1.6	0
34	A note on the Nesterov-Todd and the Kojima-Shindoh-hara search directions in semidefinite programming. Optimization Methods and Software, 1999, 11, 47-52.	1.6	5
35	A Predictor-Corrector Interior-Point Algorithm for the Semidefinite Linear Complementarity Problem Using the Alizadeh–Haeberly–Overton Search Direction. SIAM Journal on Optimization, 1999, 9, 444-465.	1.2	36
36	Computing the Minimum Cost Pipe Network Interconnecting One Sink and Many Sources. SIAM Journal on Optimization, 1999, 10, 22-42.	1.2	25

.

CITATION REPORT IF CITATIONS The \$U\$-Lagrangian of the Maximum Eigenvalue Function. SIAM Journal on Optimization, 1999, 9, 1.2 30 Polynomial Convergence of a New Family of Primal-Dual Algorithms for Semidefinite Programming. SIAM Journal on Optimization, 1999, 9, 551-577. Condition-Based Complexity of Convex Optimization in Conic Linear Form via the Ellipsoid Algorithm. SIAM Journal on Optimization, 1999, 10, 155-176. 1.2 70

40	Homogeneous Analytic Center Cutting Plane Methods for Convex Problems and Variational Inequalities. SIAM Journal on Optimization, 1999, 9, 707-728.	1.2	32
41	A Potential Reduction Newton Method for Constrained Equations. SIAM Journal on Optimization, 1999, 9, 729-754.	1.2	30
42	Using SeDuMi 1.02, A Matlab toolbox for optimization over symmetric cones. Optimization Methods and Software, 1999, 11, 625-653.	1.6	5,627
43	A study of search directions in primal-dual interior-point methods for semidefinite programming. Optimization Methods and Software, 1999, 11, 1-46.	1.6	76
44	A convergence analysis of the scaling-invariant primal-dual path-following algorithms for second-order cone programming. Optimization Methods and Software, 1999, 11, 141-182.	1.6	94
45	Primal-Dual Affine-Scaling Algorithms Fail for Semidefinite Programming. Mathematics of Operations Research, 1999, 24, 149-175.	0.8	7
46	General Interior-Point Maps and Existence of Weighted Paths for Nonlinear Semidefinite Complementarity Problems. Mathematics of Operations Research, 2000, 25, 381-399.	0.8	19
47	Block Coordinate Relaxation Methods for Nonparametric Wavelet Denoising. Journal of Computational and Graphical Statistics, 2000, 9, 361.	0.9	67
48	Conic convex programming and self-dual embedding. Optimization Methods and Software, 2000, 14, 169-218.	1.6	67
49	Robust steady-state target calculation for model predictive control. AICHE Journal, 2000, 46, 1007-1024.	1.8	113
50	Similarity and other spectral relations for symmetric cones. Linear Algebra and Its Applications, 2000, 312, 135-154.	0.4	60
51	Interior-point methods. Journal of Computational and Applied Mathematics, 2000, 124, 281-302.	1.1	411
52	New Complexity Analysis of the Primal—Dual Newton Method for Linear Optimization. Annals of Operations Research, 2000, 99, 23-39.	2.6	30
53	Polynomial convergence of primal-dual algorithms for the second-order cone program based on the MZ-family of directions. Mathematical Programming, 2000, 88, 61-83.	1.6	133
54	Computing approximate solutions for convex conic systems of constraints. Mathematical Programming, 2000, 87, 351-383.	1.6	37

ARTICLE

526-549.

#

37

39

#	Article	IF	Citations
55	Handbook of Semidefinite Programming. Profiles in Operations Research, 2000, , .	0.3	438
56	Block Coordinate Relaxation Methods for Nonparametric Wavelet Denoising. Journal of Computational and Graphical Statistics, 2000, 9, 361-379.	0.9	88
57	Squared Functional Systems and Optimization Problems. Applied Optimization, 2000, , 405-440.	0.4	188
58	Error Bounds for Linear Matrix Inequalities. SIAM Journal on Optimization, 2000, 10, 1228-1248.	1.2	51
59	An Efficient Algorithm for Minimizing a Sum of p-Norms. SIAM Journal on Optimization, 2000, 10, 551-579.	1.2	57
60	A Spectral Bundle Method for Semidefinite Programming. SIAM Journal on Optimization, 2000, 10, 673-696.	1.2	308
61	Fixing Variables in Semidefinite Relaxations. SIAM Journal on Matrix Analysis and Applications, 2000, 21, 952-969.	0.7	42
62	An Efficient Primal-Dual Interior-Point Method for Minimizing a Sum of Euclidean Norms. SIAM Journal of Scientific Computing, 2000, 22, 243-262.	1.3	117
64	Grade of Service Steiner Minimum Trees in the Euclidean Plane. Algorithmica, 2001, 31, 479-500.	1.0	19
65	A Scaled GaussNewton Primal-Dual Search Direction for Semidefinite Optimization. SIAM Journal on Optimization, 2001, 11, 870-888.	1.2	4
66	On Polyhedral Approximations of the Second-Order Cone. Mathematics of Operations Research, 2001, 26, 193-205.	0.8	273
67	On Homogeneous Convex Cones, The Carathéodory Number, and the Duality Mapping. Mathematics of Operations Research, 2001, 26, 234-247.	0.8	12
68	Conditioning of Convex Programs from a Primal-Dual Perspective. Mathematics of Operations Research, 2001, 26, 206-220.	0.8	8
69	On two homogeneous self-dual approaches to linear programming and its extensions. Mathematical Programming, 2001, 89, 517-534.	1.6	3
70	On sensitivity of central solutions in semidefinite programming. Mathematical Programming, 2001, 90, 205-227.	1.6	19
71	Sensitivity analysis in linear programming and semidefinite programming using interior-point methods. Mathematical Programming, 2001, 90, 229-261.	1.6	29
72	Generalization of Primal—Dual Interior-Point Methods to Convex Optimization Problems in Conic Form. Foundations of Computational Mathematics, 2001, 1, 229-254.	1.5	29
73	A long-step primal–dual algorithm for the symmetric programming problem. Systems and Control Letters, 2001, 43, 3-7.	1.3	14

		CITATION RE	PORT	
#	Article		IF	CITATIONS
74	An easy way to teach interior-point methods. European Journal of Operational Research	ı, 2001, 130, 1-19.	3.5	21
75	Group Symmetry in Interior-Point Methods for Semidefinite Program. Optimization and 2001, 2, 293-320.	Engineering,	1.3	40
76	New Complexity Analysis of the Primal–Dual Method for Semidefinite Optimization B Nesterov–Todd Direction. Journal of Optimization Theory and Applications, 2001, 10	based on the 9, 327-343.	0.8	6
77	Title is missing!. Journal of Combinatorial Optimization, 2001, 5, 151-166.		0.8	10
78	A Predictor–Corrector Algorithm for QSDP Combining Dikin-Type and Newton Center of Operations Research, 2001, 103, 115-133.	ring Steps. Annals	2.6	26
79	Semidefinite optimization. Acta Numerica, 2001, 10, 515-560.		6.3	346
80	Associative and Jordan Algebras, and Polynomial Time Interior-Point Algorithms for Sym Mathematics of Operations Research, 2001, 26, 543-564.	metric Cones.	0.8	99
81	Approximation algorithms for MAX-3-CUT and other problems via complex semidefinite 2001, , .	programming. ,		33
82	Notes on Duality in Second Order and p -Order Cone Optimization. Optimization, 2002	2, 51, 627-643.	1.0	30
83	Implementation of interior point methods for mixed semidefinite and second order con problems. Optimization Methods and Software, 2002, 17, 1105-1154.	e optimization	1.6	146
84	Primal-Dual Interior-Point Methods for Second-Order Conic Optimization Based on Self- Proximities. SIAM Journal on Optimization, 2002, 13, 179-203.	-Regular	1.2	48
85	Self-Scaled Barriers for Irreducible Symmetric Cones. SIAM Journal on Optimization, 200	02, 12, 715-723.	1.2	11
86	Nonnegative Minimum Biased Quadratic Estimation in Mixed Linear Models. Journal of Analysis, 2002, 80, 217-233.	Multivariate	0.5	3
87	A Jordan-algebraic approach to potential-reduction algorithms. Mathematische Zeitschr 117-129.	ift, 2002, 239,	0.4	77
88	Generalized Goal Programming: polynomial methods and applications. Mathematical Pr 2002, 93, 281-303.	ogramming,	1.6	23
89	A spectral bundle method with bounds. Mathematical Programming, 2002, 93, 173-194	4.	1.6	59
90	Two properties of condition numbers for convex programs via implicitly defined barrier Mathematical Programming, 2002, 93, 55-75.	functions.	1.6	5
91	Self-regular functions and new search directions for linear and semidefinite optimizatio Mathematical Programming, 2002, 93, 129-171.	n.	1.6	158

		15	<u></u>
#	ARTICLE Self-Scaled Barrier Functions on Symmetric Cones and Their Classification. Foundations of	IF	CITATIONS
92	Computational Mathematics, 2002, 2, 121-143.	1.5	17
93	Semidefinite programming for discrete optimization and matrix completion problems. Discrete Applied Mathematics, 2002, 123, 513-577.	0.5	25
94	Semidefinite programming. European Journal of Operational Research, 2002, 137, 461-482.	3.5	54
95	A new class of polynomial primal–dual methods for linear and semidefinite optimization. European Journal of Operational Research, 2002, 143, 234-256.	3.5	33
96	An Interior-Point Method for a Class of Saddle-Point Problems. Journal of Optimization Theory and Applications, 2003, 116, 559-590.	0.8	66
97	Second-order cone programming. Mathematical Programming, 2003, 95, 3-51.	1.6	1,113
98	Solving semidefinite-quadratic-linear programs using SDPT3. Mathematical Programming, 2003, 95, 189-217.	1.6	884
99	Avoiding numerical cancellation in the interior point method for solving semidefinite programs. Mathematical Programming, 2003, 95, 219-247.	1.6	7
100	On implementing a primal-dual interior-point method for conic quadratic optimization. Mathematical Programming, 2003, 95, 249-277.	1.6	483
101	Extension of primal-dual interior point algorithms to symmetric cones. Mathematical Programming, 2003, 96, 409-438.	1.6	252
102	Primal-dual algorithms and infinite-dimensional Jordan algebras of finite rank. Mathematical Programming, 2003, 97, 471-493.	1.6	29
103	First- and second-order methods for semidefinite programming. Mathematical Programming, 2003, 97, 209-244.	1.6	53
104	Semidefinite programming and matrix scaling over the semidefinite cone. Linear Algebra and Its Applications, 2003, 375, 221-243.	0.4	3
105	Optimal design of IIR digital filters with robust stability using conic-quadraticprogramming updates. IEEE Transactions on Signal Processing, 2003, 51, 1581-1592.	3.2	92
106	Optimal Magnetic Shield Design with Second-Order Cone Programming. SIAM Journal of Scientific Computing, 2003, 24, 1930-1950.	1.3	18
107	Optimization of Acoustic Source Strength in the Problems of Active Noise Control. SIAM Journal on Applied Mathematics, 2003, 63, 1141-1183.	0.8	28
108	Optimal design of IIR frequency-response-masking filters using second-order cone programming. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 1401-1412.	0.1	25
109	A General Framework for Establishing Polynomial Convergence of Long-Step Methods for Semidefinite Programming. Optimization Methods and Software, 2003, 18, 1-38.	1.6	2

#	Article	IF	CITATIONS
110	Approximate minimum enclosing balls in high dimensions using core-sets. Journal of Experimental Algorithmics, 2003, 8, .	0.7	100
111	Optimal design of IIR digital filters with robust stability using conic quadratic programming. , 0, , .		2
112	Polynomial complexity for a Nesterov-Todd potential-reduction method with inexact search directions. , 0, , .		8
113	Optimal design of FIR frequency-response-masking filters using second-order cone programming. , 0, , .		20
114	An Interior-Point Perspective on Sensitivity Analysis in Semidefinite Programming. Mathematics of Operations Research, 2003, 28, 649-676.	0.8	12
115	Detecting Infeasibility. , 2004, , 157-192.		2
116	Interior Point Methods for Second-Order Cone Programming and OR Applications. Computational Optimization and Applications, 2004, 28, 255-285.	0.9	52
117	Reflection-Projection Method for Convex Feasibility Problems with an Obtuse Cone. Journal of Optimization Theory and Applications, 2004, 120, 503-531.	0.8	31
118	Using a Conic Formulation for Finding Steiner Minimal Trees. Numerical Algorithms, 2004, 35, 315-330.	1.1	13
119	Geometry of homogeneous convex cones, duality mapping, and optimal self-concordant barriers. Mathematical Programming, 2004, 100, 295-316.	1.6	23
120	The Nesterov?Todd Direction and Its Relation to Weighted Analytic Centers. Foundations of Computational Mathematics, 2004, 4, 1-40.	1.5	0
121	On self-regular IPMs. Top, 2004, 12, 209-275.	1.1	1
122	Approximation algorithms for Max-3-Cut and other problems via complex semidefinite programming. Journal of Computer and System Sciences, 2004, 68, 442-470.	0.9	70
123	Strengthened existence and uniqueness conditions for search directions in semidefinite programming. Linear Algebra and Its Applications, 2005, 400, 31-60.	0.4	5
124	The inverse mean problem of geometric mean and contraharmonic means. Linear Algebra and Its Applications, 2005, 408, 221-229.	0.4	11
125	An ϵ-sensitivity analysis for semidefinite programming. European Journal of Operational Research, 2005, 164, 417-422.	3.5	3
126	?Cone-free? primal-dual path-following and potential-reduction polynomial time interior-point methods. Mathematical Programming, 2005, 102, 261-294.	1.6	12
127	Product-form Cholesky factorization in interior point methods for second-order cone programming. Mathematical Programming, 2005, 103, 153-179.	1.6	15

#	Article	IF	CITATIONS
128	On Central-Path Proximity Measures in Interior-Point Methods. Journal of Optimization Theory and Applications, 2005, 127, 303-328.	0.8	3
129	Primal-Dual Interior-Point Algorithms for Semidefinite Optimization Based on a Simple Kernel Function. Mathematical Modelling and Algorithms, 2005, 4, 409-433.	0.5	43
130	Efficient Algorithms for the Smallest Enclosing Ball Problem. Computational Optimization and Applications, 2005, 30, 147-160.	0.9	27
131	Second-order cone programming approaches to static shakedown analysis in steel plasticity. Optimization Methods and Software, 2005, 20, 25-52.	1.6	62
132	Disciplined Convex Programming. , 2006, , 155-210.		313
133	Computation of condition numbers for linear programming problems using Peña's method. Optimization Methods and Software, 2006, 21, 419-443.	1.6	2
134	Polynomial Convergence of Infeasible-Interior-Point Methods over Symmetric Cones. SIAM Journal on Optimization, 2006, 16, 1211-1229.	1.2	89
135	A constrained robust least squares approach for contaminant release history identification. Water Resources Research, 2006, 42, .	1.7	78
136	Advances in Convex Optimization. , 2006, , .		30
137	Towards Nonsymmetric Conic Optimization. SSRN Electronic Journal, 2006, , .	0.4	9
137 138	Towards Nonsymmetric Conic Optimization. SSRN Electronic Journal, 2006, , . Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its Applications, 2006, 414, 560-569.	0.4	9 9
	Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its		
138	Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its Applications, 2006, 414, 560-569. On the behavior of the homogeneous self-dual model for conic convex optimization. Mathematical	0.4	9
138 139	Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its Applications, 2006, 414, 560-569. On the behavior of the homogeneous self-dual model for conic convex optimization. Mathematical Programming, 2006, 106, 527-545. A class of polynomial primal-dual interior-point algorithms for semidefinite optimization. Journal of	0.4 1.6	9
138 139 140	Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its Applications, 2006, 414, 560-569. On the behavior of the homogeneous self-dual model for conic convex optimization. Mathematical Programming, 2006, 106, 527-545. A class of polynomial primal-dual interior-point algorithms for semidefinite optimization. Journal of Shanghai University, 2006, 10, 198-207. A robust approach for iterative contaminant source location and release history recovery. Journal of	0.4 1.6 0.1	9 10 6
138 139 140 141	Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its Applications, 2006, 414, 560-569. On the behavior of the homogeneous self-dual model for conic convex optimization. Mathematical Programming, 2006, 106, 527-545. A class of polynomial primal-dual interior-point algorithms for semidefinite optimization. Journal of Shanghai University, 2006, 10, 198-207. A robust approach for iterative contaminant source location and release history recovery. Journal of Contaminant Hydrology, 2006, 88, 181-196. Implementation of infinite-dimensional interior-point method for solving multi-criteria	0.4 1.6 0.1 1.6	9 10 6 68
138 139 140 141 142	Solving symmetric matrix word equations via symmetric space machinery. Linear Algebra and Its Applications, 2006, 414, 560-569. On the behavior of the homogeneous self-dual model for conic convex optimization. Mathematical Programming, 2006, 106, 527-545. A class of polynomial primal-dual interior-point algorithms for semidefinite optimization. Journal of Shanghai University, 2006, 10, 198-207. A robust approach for iterative contaminant source location and release history recovery. Journal of Contaminant Hydrology, 2006, 88, 181-196. Implementation of infinite-dimensional interior-point method for solving multi-criteria linear-quadratic control problem. Optimization Methods and Software, 2006, 21, 315-341. Interior Point Trajectories and a Homogeneous Model for Nonlinear Complementarity Problems over	0.4 1.6 0.1 1.6 1.6	9 10 6 68 5

#	Article	IF	CITATIONS
146	Assessment and Future Directions of Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 2007, , .	0.6	86
147	ON \$epsilon\$-APPROXIMATE SOLUTIONS FOR CONVEX SEMIDEFINITE OPTIMIZATION PROBLEMS. Taiwanese Journal of Mathematics, 2007, 11, .	0.2	15
148	Three-dimensional Mohr-Coulomb limit analysis using semidefinite programming. Communications in Numerical Methods in Engineering, 2007, 24, 1107-1119.	1.3	115
149	Nonlinear semidefinite programming: sensitivity, convergence, and an application in passive reduced-order modeling. Mathematical Programming, 2007, 109, 581-611.	1.6	47
150	Invariance and efficiency of convex representations. Mathematical Programming, 2007, 111, 113-140.	1.6	17
151	The Primal-Dual Second-Order Cone Approximations Algorithm for Symmetric Cone Programming. Foundations of Computational Mathematics, 2007, 7, 271-302.	1.5	5
152	A primal–dual symmetric relaxation for homogeneous conic systems. Journal of Complexity, 2007, 23, 245-261.	0.7	10
153	An interior-point method for the single-facility location problem with mixed norms using a conic formulation. Mathematical Methods of Operations Research, 2008, 68, 383-405.	0.4	2
154	An infeasible-interior-point predictor-corrector algorithm for the second-order cone program. Acta Mathematica Scientia, 2008, 28, 551-559.	0.5	8
155	Mesh adaptive computation of upper and lower bounds in limit analysis. International Journal for Numerical Methods in Engineering, 2008, 75, 899-944.	1.5	187
156	Γ-Commuting triples of positive definite matrices and midpoint equations on unitary matrices. Linear Algebra and Its Applications, 2008, 428, 2030-2039.	0.4	3
157	Linear and Nonlinear Programming. Profiles in Operations Research, 2008, , .	0.3	899
158	Track Routing and Optimization for Yield. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 872-882.	1.9	20
159	Several Jordan-algebraic aspects of optimizationâ€. Optimization, 2008, 57, 379-393.	1.0	20
160	Control of Systems With Uncertain Initial Conditions. IEEE Transactions on Automatic Control, 2008, 53, 2646-2651.	3.6	13
161	Model-Independent Estimates of Dark Matter Distributions. Journal of the American Statistical Association, 2008, 103, 1070-1084.	1.8	2
162	A tailored inexact interior-point method for systems analysis. , 2008, , .		0
163	Complexity of the primal–dual path-following algorithms for the weighted determinant maximization problems with linear matrix inequalities in the narrow neighbourhood. Optimization Methods and Software, 2008, 23, 421-440.	1.6	0

#	Article	IF	CITATIONS
164	Isotonic Smoothing Spline Regression. Journal of Computational and Graphical Statistics, 2008, 17, 21-37.	0.9	33
165	Bayesian Free-Knot Monotone Cubic Spline Regression. Journal of Computational and Graphical Statistics, 2008, 17, 373-387.	0.9	12
166	Interior-point methods for optimization. Acta Numerica, 2008, 17, 191-234.	6.3	132
167	A Condition Number for Multifold Conic Systems. SIAM Journal on Optimization, 2008, 19, 261-280.	1.2	6
168	An Analytic Center Cutting Plane Approach for Conic Programming. Mathematics of Operations Research, 2008, 33, 529-551.	0.8	6
169	Positive Polynomial Constraints for POD-based Model Predictive Controllers. IEEE Transactions on Automatic Control, 2009, 54, 988-999.	3.6	8
170	Random walks on polytopes and an affine interior point method for linear programming. , 2009, , .		12
171	Ap-cone sequential relaxation procedure for 0-1 integer programs. Optimization Methods and Software, 2009, 24, 523-548.	1.6	8
172	A primal–dual interior point method for nonlinear optimization over second-order cones. Optimization Methods and Software, 2009, 24, 407-426.	1.6	27
173	Largest dual ellipsoids inscribed in dual cones. Mathematical Programming, 2009, 117, 425-434.	1.6	2
174	Primal–dual interior-point algorithms for second-order cone optimization based on kernel functions. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 3584-3602.	0.6	37
175	Primal-dual interior-point algorithm for convex quadratic semi-definite optimization. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 3389-3402.	0.6	25
176	On verified numerical computations in convex programming. Japan Journal of Industrial and Applied Mathematics, 2009, 26, 337-363.	0.5	9
177	On complexity analysis of the primal–dual interior-point method for semidefinite optimization problem based on a new proximity function. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e2628-e2640.	0.6	9
178	A new primal-dual path-following interior-point algorithm for semidefinite optimization. Journal of Mathematical Analysis and Applications, 2009, 353, 339-349.	0.5	62
179	A primal-dual interior-point algorithm for second-order cone optimization with full Nesterov–Todd step. Applied Mathematics and Computation, 2009, 215, 1047-1061.	1.4	42
180	Interval Newton Methods. , 2008, , 1763-1766.		0
181	A new long-step path-following interior-point method with o(â^šnl) iteration-complexity bound for semidefinite programming. , 2009, , .		0

#	Article	IF	CITATIONS
182	Robust control of norm-bounded uncertain linear system with regional pole assignment. , 2009, , .		1
183	A Polynomial-Time Interior-Point Method for Conic Optimization, With Inexact Barrier Evaluations. SIAM Journal on Optimization, 2009, 20, 548-571.	1.2	3
184	Twenty-Five Years of Interior Point Methods. , 2009, , 1-33.		1
185	Two-dimensional Second-Order Cone Programming. International Journal of Operational Research, 2009, 5, 468.	0.1	1
186	Implementation of nonsymmetric interior-point methods for linear optimization over sparse matrix cones. Mathematical Programming Computation, 2010, 2, 167-201.	3.2	43
187	A class of polynomial interior-point algorithms for the Cartesian second-order cone linear complementarity problem. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 3705-3722.	0.6	6
188	Risk optimization with p-order conic constraints: A linear programming approach. European Journal of Operational Research, 2010, 201, 653-671.	3.5	25
189	A wide neighbourhood interior-point method with iteration-complexity bound for semidefinite programming. Optimization, 2010, 59, 1235-1246.	1.0	16
190	Low-rank exploitation in semidefinite programming for control. , 2010, , .		0
191	Nonlinear Optimization. Lecture Notes in Mathematics, 2010, , .	0.1	10
192	An inexact interior-point method for system analysis. International Journal of Control, 2010, 83, 601-616.	1.2	3
193	A generic primal–dual interior-point method for semidefinite optimization based on a new class of kernel functions. Optimization Methods and Software, 2010, 25, 387-403.	1.6	10
194	On the complexity analysis of a Mehrotra-type primal–dual feasible algorithm for semidefinite optimization. Optimization Methods and Software, 2010, 25, 467-485.	1.6	6
195	On optimization over the doubly nonnegative cone. , 2010, , .		16
196	A New Class of Large Neighborhood Path-Following Interior Point Algorithms for Semidefinite Optimization with \$O(sqrt{n}lograc{mathrm{Tr}(X^0S^0)}{epsilon})\$ Iteration Complexity. SIAM Journal on Optimization, 2010, 20, 2853-2875.	1.2	51
197	Interior-Point Method for Nuclear Norm Approximation with Application to System Identification. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 1235-1256.	0.7	330
198	A finite termination mehrotra-type predictor-corrector algorithm for Semidefinite Optimization. , 2010, , .		0
199	Superlinear Convergence of an Infeasible Predictor-Corrector Path-Following Interior Point Algorithm for a Semidefinite Linear Complementarity Problem Using the Helmberg–Kojima–Monteiro Direction. SIAM Journal on Optimization, 2011, 21, 102-126.	1.2	3

#	Article	IF	CITATIONS
202	Asymptotic Behavior ofÂUnderlying NT Paths inÂInterior Point Methods forÂMonotone Semidefinite Linear Complementarity Problems. Journal of Optimization Theory and Applications, 2011, 148, 79-106.	0.8	1
203	A Smoothing Newton Method with Fischer-Burmeister Function for Second-Order Cone Complementarity Problems. Journal of Optimization Theory and Applications, 2011, 149, 79-101.	0.8	29
204	Kernel-Based Interior-Point Methods for Monotone Linear Complementarity Problems over Symmetric Cones. Journal of Optimization Theory and Applications, 2011, 150, 444-474.	0.8	21
205	A unified kernel function approach to primal-dual interior-point algorithms for convex quadratic SDO. Numerical Algorithms, 2011, 57, 537-558.	1.1	15
206	Two new predictor-corrector algorithms for second-order cone programming. Applied Mathematics and Mechanics (English Edition), 2011, 32, 521-532.	1.9	3
207	Polynomial complexity of an interior point algorithm with a second order corrector step for symmetric cone programming. Mathematical Methods of Operations Research, 2011, 73, 75-90.	0.4	26
208	Full Nesterov–Todd step infeasible interior-point method for symmetric optimization. European Journal of Operational Research, 2011, 214, 473-484.	3.5	80
209	Maximum-Volume Symmetric Gauge Ball Problem on the Convex Cone of Positive Definite Matrices and Convexity of Optimal Sets. SIAM Journal on Optimization, 2011, 21, 1275-1288.	1.2	2
210	Todd's maximum-volume ellipsoid problem on symmetric cones. Forum Mathematicum, 2011, 23, .	0.3	1
211	A FULL NT-STEP INFEASIBLE INTERIOR-POINT ALGORITHM FOR SEMIDEFINITE OPTIMIZATION BASED ON A SELF-REGULAR PROXIMITY. ANZIAM Journal, 2011, 53, 48-67.	0.3	7
212	Low-rank exploitation in semidefinite programming for control. International Journal of Control, 2011, 84, 1975-1982.	1.2	2
213	A Geometric Mean of Parameterized Arithmetic and Harmonic Means of Convex Functions. Abstract and Applied Analysis, 2012, 2012, 1-15.	0.3	0
214	Towards non-symmetric conic optimization. Optimization Methods and Software, 2012, 27, 893-917.	1.6	35
215	A New Iteration Large-Update Primal-Dual Interior-Point Method for Second-Order Cone Programming. Numerical Functional Analysis and Optimization, 2012, 33, 397-414.	0.6	10
216	A robust algorithm for semidefinite programming. Optimization Methods and Software, 2012, 27, 667-693.	1.6	8
217	Random Walks on Polytopes and an Affine Interior Point Method for Linear Programming. Mathematics of Operations Research, 2012, 37, 1-20.	0.8	33
218	A primal–dual interior point method for nonlinear semidefinite programming. Mathematical Programming, 2012, 135, 89-121.	1.6	43
219	A large-update interior-point algorithm for convex quadratic semi-definite optimization based on a new kernel function. Acta Mathematica Sinica, English Series, 2012, 28, 2313-2328.	0.2	9

#	Article	IF	CITATIONS
220	A New Full Nesterov–Todd Step Primal–Dual Path-Following Interior-Point Algorithm for Symmetric Optimization. Journal of Optimization Theory and Applications, 2012, 154, 966-985.	0.8	70
221	Polynomial Convergence of Second-Order Mehrotra-Type Predictor-Corrector Algorithms over Symmetric Cones. Journal of Optimization Theory and Applications, 2012, 154, 949-965.	0.8	21
222	Primal-dual interior-point algorithm for semidefinite optimization based on a new kernel function with trigonometric barrier term. Numerical Algorithms, 2012, 61, 659-680.	1.1	27
223	Weighted Complementarity ProblemsA New Paradigm for Computing Equilibria. SIAM Journal on Optimization, 2012, 22, 1634-1654.	1.2	35
224	Interior-point methods based on kernel functions for symmetric optimization. Optimization Methods and Software, 2012, 27, 513-537.	1.6	17
225	A NEW POLYNOMIAL INTERIOR-POINT ALGORITHM FOR THE MONOTONE LINEAR COMPLEMENTARITY PROBLEM OVER SYMMETRIC CONES WITH FULL NT-STEPS. Asia-Pacific Journal of Operational Research, 2012, 29, 1250015.	0.9	12
226	A second order Mehrotra-type predictor-corrector algorithm for semidefinite optimization. Journal of Systems Science and Complexity, 2012, 25, 1108-1121.	1.6	7
227	Simplified infeasible interior-point algorithm for SDO using full Nesterov-Todd step. Numerical Algorithms, 2012, 59, 589-606.	1.1	11
228	A new second-order corrector interior-point algorithm for semidefinite programming. Mathematical Methods of Operations Research, 2012, 75, 165-183.	0.4	10
229	Local and superlinear convergence of a primal-dual interior point method for nonlinear semidefinite programming, 2012, 132, 1-30.	1.6	36
230	A Class of Polynomial Interior Point Algorithms for the Cartesian P-Matrix Linear Complementarity Problem over Symmetric Cones. Journal of Optimization Theory and Applications, 2012, 152, 739-772.	0.8	33
231	New complexity analysis of interior-point methods for the Cartesian P â $-$ (${\rm \hat{l}}^{\rm e}$) -SCLCP. Journal of Inequalities and Applications, 2013, 2013, .	0.5	1
232	Warmstarting the homogeneous and self-dual interior point method for linear and conic quadratic problems. Mathematical Programming Computation, 2013, 5, 1-25.	3.2	23
233	Test-assignment: a quadratic coloring problem. Journal of Heuristics, 2013, 19, 549-564.	1.1	4
234	A Large-Update Feasible Interior-Point Algorithm for Convex Quadratic Semi-definite Optimization Based on a New Kernel Function. Journal of the Operations Research Society of China, 2013, 1, 359-376.	0.9	2
235	A Full Nesterov-Todd Step Feasible Weighted Primal-Dual Interior-Point Algorithm for Symmetric Optimization. Journal of the Operations Research Society of China, 2013, 1, 467-481.	0.9	2
236	A new infeasible interior-point method based on Darvay's technique for symmetric optimization. Annals of Operations Research, 2013, 211, 209-224.	2.6	17
237	Carlson's iterative mean algorithm of positive definite matrices. Linear Algebra and Its Applications, 2013, 439, 1183-1201.	0.4	1

#	Article	IF	CITATIONS
238	Simplified analysis for full-Newton step infeasible interior-point algorithm for semidefinite programming. Optimization, 2013, 62, 169-191.	1.0	10
239	A Full Nesterov–Todd Step Infeasible Interior-Point Method for Second-Order Cone Optimization. Journal of Optimization Theory and Applications, 2013, 158, 816-858.	0.8	24
240	Interior-point methods for symmetric optimization based on a class of non-coercive kernel functions. Optimization Methods and Software, 2013, 28, 581-599.	1.6	1
241	A New Wide Neighborhood Primal–Dual Infeasible-Interior-Point Method for Symmetric Cone Programming. Journal of Optimization Theory and Applications, 2013, 158, 796-815.	0.8	42
242	Full Nesterov–Todd step feasible interior-point method for the Cartesian <i>P</i> _* (lº)-SCLCP. Optimization Methods and Software, 2013, 28, 600-618.	1.6	27
243	New complexity analysis of a Mehrotra-type predictor–corrector algorithm for semidefinite programming. Optimization Methods and Software, 2013, 28, 1179-1194.	1.6	4
244	The resolvent average on symmetric cones. Linear Algebra and Its Applications, 2013, 438, 1159-1169.	0.4	3
245	A new full Nesterov–Todd step feasible interior-point method for convex quadratic symmetric cone optimization. Applied Mathematics and Computation, 2013, 221, 329-343.	1.4	28
246	A full-step interior-point algorithm for second-order cone optimization based on a simple locally kernel function. Optimization Methods and Software, 2013, 28, 619-639.	1.6	1
247	Mixed-Integer Second-Order Cone Programming: A Survey. , 2013, , 13-36.		30
248	Research Article: On Extending Primal-Dual Interior-Point Method for Linear Optimization to Convex Quadratic Symmetric Cone Optimization. Numerical Functional Analysis and Optimization, 2013, 34, 576-603.	0.6	8
249	Hessian distances and their applications in the complexity analysis of interior-point methods. Optimization Methods and Software, 2013, 28, 543-563.	1.6	0
250	Extension of primal-dual interior point methods to diff-convex problems on symmetric cones. Optimization, 2013, 62, 345-377.	1.0	4
251	ECOS: An SOCP solver for embedded systems. , 2013, , .		368
252	A Mixed Line Search Smoothing Quasi-Newton Method for Solving Linear Second-Order Cone Programming Problem. ISRN Operations Research, 2013, 2013, 1-9.	0.5	0
253	Kernel function-based primal-dual interior-point methods for symmetric cones optimization. Wuhan University Journal of Natural Sciences, 2014, 19, 461-468.	0.2	0
254	A corrector–predictor path-following algorithm for semidefinite optimization. Asian-European Journal of Mathematics, 2014, 07, 1450028.	0.2	2
255	Infeasible Mehrotra-Type Predictor-Corrector Interior-Point Algorithm for the Cartesian <i>P</i> _* (κ)-LCP Over Symmetric Cones. Numerical Functional Analysis and Optimization, 2014, 35, 588-610.	0.6	11

#	Article	IF	Citations
256	An inexact interior point method for the large-scale simulation of granular material. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 567-598.	3.4	13
257	Path Finding Methods for Linear Programming: Solving Linear Programs in Õ(vrank) Iterations and Faster Algorithms for Maximum Flow. , 2014, , .		113
258	Energy efficient DVFS scheduling for mixed-criticality systems. , 2014, , .		68
259	A second-order Mehrotra-type predictor-corrector algorithm with a new wide neighbourhood for semi-definite programming. International Journal of Computer Mathematics, 2014, 91, 1082-1096.	1.0	12
260	A self-concordant exponential kernel function for primal–dual interior-point algorithm. Optimization, 2014, 63, 931-953.	1.0	1
261	A predictor-corrector path-following algorithm for symmetric optimization based on Darvay's technique. Yugoslav Journal of Operations Research, 2014, 24, 35-51.	0.5	3
262	Polynomial convergence of Mehrotra-type prediction–corrector infeasible-IPM for symmetric optimization based on the commutative class directions. Applied Mathematics and Computation, 2014, 230, 616-628.	1.4	4
263	Using semidefinite programming to optimize unequal deployment of genotypes to a clonal seed orchard. Tree Genetics and Genomes, 2014, 10, 27-34.	0.6	12
264	Homogeneous Self-dual Algorithms for Stochastic Second-Order Cone Programming. Journal of Optimization Theory and Applications, 2014, 163, 148-164.	0.8	8
265	An Inexact Proximal Path-Following Algorithm for Constrained Convex Minimization. SIAM Journal on Optimization, 2014, 24, 1718-1745.	1.2	14
266	A New Primal-Dual Interior-Point Algorithm for Semidefinite Optimization. , 2014, , .		0
267	Solving the continuous nonlinear resource allocation problem with an interior point method. Operations Research Letters, 2014, 42, 404-408.	0.5	10
268	Outage Probability Based Robust Distributed Beam-Forming in Multi-User Cooperative Networks with Imperfect CSI. Wireless Personal Communications, 2014, 77, 1629-1658.	1.8	14
269	An iteration primal–dual path-following method, based on wide neighbourhood and large update, for second-order cone programming. Optimization, 2014, 63, 679-691.	1.0	18
270	A weighted-path-following method for symmetric cone linear complementarity problems. Numerical Algebra, Control and Optimization, 2014, 4, 141-150.	1.0	0
271	Automated Custom Code Generation for Embedded, Real-time Second Order Cone Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1605-1612.	0.4	47
272	Kernel-function-based primal-dual interior-point methods for convex quadratic optimization over symmetric cone. Journal of Inequalities and Applications, 2014, 2014, 308.	0.5	4
273	Invisibility Cloaking. , 2015, , 751-758.		1

#	Article	IF	CITATIONS
274	Interval Arithmetics. , 2015, , 712-716.		0
275	Chordal Graphs and Semidefinite Optimization. Foundations and Trends $\hat{A}^{\textcircled{0}}$ in Optimization, 2015, 1, 241-433.	7.2	131
276	Simplified analysis of a full Nesterov–Todd step infeasible interior-point method for symmetric optimization. Asian-European Journal of Mathematics, 2015, 08, 1550071.	0.2	2
277	Immersed Interface/Boundary Method. , 2015, , 667-676.		0
278	A SURVEY OF NUMERICAL METHODS FOR NONLINEAR SEMIDEFINITE PROGRAMMING. Journal of the Operations Research Society of Japan, 2015, 58, 24-60.	0.3	24
279	Information Theory for Climate Change and Prediction. , 2015, , 682-686.		0
280	A primal-dual interior point method for large-scale free material optimization. Computational Optimization and Applications, 2015, 61, 409-435.	0.9	11
281	A Polynomial Time Constraint-Reduced Algorithm for Semidefinite Optimization Problems. Journal of Optimization Theory and Applications, 2015, 166, 558-571.	0.8	4
282	A method for weighted projections to the positive definite cone. Optimization, 2015, 64, 2253-2275.	1.0	3
283	Variational Optimization of the Second-Order Density Matrix Corresponding to a Seniority-Zero Configuration Interaction Wave Function. Journal of Chemical Theory and Computation, 2015, 11, 4064-4076.	2.3	46
284	A New Infeasible Interior-Point Method Based on a Non-Coercive Kernel Function with Improved Centering Steps for Second-Order Cone Optimization. Numerical Functional Analysis and Optimization, 2015, 36, 1322-1338.	0.6	0
285	Solving the maximum-crossrange problem via successive second-order cone programming with a line search. Aerospace Science and Technology, 2015, 47, 10-20.	2.5	60
286	Improved Complexity Analysis of Full Nesterov–Todd Step Feasible Interior-Point Method for Symmetric Optimization. Journal of Optimization Theory and Applications, 2015, 166, 588-604.	0.8	14
287	Intrinsic volumes of symmetric cones and applications in convex programming. Mathematical Programming, 2015, 149, 105-130.	1.6	15
288	A Corrector–Predictor Path-Following Method for Convex Quadratic Symmetric Cone Optimization. Journal of Optimization Theory and Applications, 2015, 164, 246-260.	0.8	8
289	An Adaptive Infeasible Interior-Point Algorithm with Full Nesterov-Todd Step for Semidefinite Optimization. Mathematical Modelling and Algorithms, 2015, 14, 55-66.	0.5	3
290	A New Strategy in the Complexity Analysis of an Infeasible-Interior-Point Method for Symmetric Cone Programming. Journal of Optimization Theory and Applications, 2015, 166, 572-587.	0.8	9
291	Improved Complexity Analysis of Full Nesterov–Todd Step Interior-Point Methods for Semidefinite Optimization. Journal of Optimization Theory and Applications, 2015, 165, 242-262.	0.8	14

#	Article	IF	CITATIONS
292	A homogeneous interior-point algorithm for nonsymmetric convex conic optimization. Mathematical Programming, 2015, 150, 391-422.	1.6	39
293	Robust Optimization of Spline Models and Complex Regulatory Networks. Contributions To Management Science, 2016, , .	0.4	16
294	An improved and modified infeasible interior-point method for symmetric optimization. Asian-European Journal of Mathematics, 2016, 09, 1650059.	0.2	3
295	Randomized interior point methods for sampling and optimization. Annals of Applied Probability, 2016, 26, .	0.6	11
296	A predictor-corrector infeasible-interior-point method for the Cartesian -LCP over symmetric cones with iteration complexity. Optimization, 2016, 65, 2293-2308.	1.0	1
297	An inexact non-interior continuation method for semidefinite programming: convergence analysis and numerical results. Numerical Algorithms, 2016, 73, 219-244.	1.1	0
298	Free material optimization for laminated plates and shells. Structural and Multidisciplinary Optimization, 2016, 53, 1335-1347.	1.7	10
299	A New Infeasible-Interior-Point Algorithm Based on Wide Neighborhoods for Symmetric Cone Programming. Journal of the Operations Research Society of China, 2016, 4, 147-165.	0.9	8
300	Local Superlinear Convergence of Polynomial-Time Interior-Point Methods for Hyperbolicity Cone Optimization Problems. SIAM Journal on Optimization, 2016, 26, 139-170.	1.2	10
301	A New Second-Order Infeasible Primal-Dual Path-Following Algorithm for Symmetric Optimization. Numerical Functional Analysis and Optimization, 2016, 37, 499-519.	0.6	3
302	Rapid Smooth Entry Trajectory Planning for High Lift/Drag Hypersonic Glide Vehicles. Journal of Optimization Theory and Applications, 2016, 168, 917-943.	0.8	36
303	Duality and Complementarity. Profiles in Operations Research, 2016, , 83-114.	0.3	0
304	Self-scaled bounds for atomic cone ranks: applications to nonnegative rank and cp-rank. Mathematical Programming, 2016, 158, 417-465.	1.6	15
305	A corrector–predictor path-following method for second-order cone optimization. International Journal of Computer Mathematics, 2016, 93, 2064-2078.	1.0	4
306	Entry Trajectory Optimization by Second-Order Cone Programming. Journal of Guidance, Control, and Dynamics, 2016, 39, 227-241.	1.6	207
307	Conic Linear Programming. Profiles in Operations Research, 2016, , 149-176.	0.3	9
308	Linear and Nonlinear Programming. Profiles in Operations Research, 2016, , .	0.3	191
309	On the <i>P_*(l̂º)</i> horizontal linear complementarity problems over Cartesian product of symmetric cones. Optimization Methods and Software, 2016, 31, 233-257.	1.6	11

#	Article	IF	CITATIONS
310	A full step infeasible interior-point method for Cartesian \$\$P_{*}(kappa)\$\$ P â^— (κ) -SCLCP. Optimization Letters, 2016, 10, 591-603.	0.9	6
311	An arc-search infeasible-interior-point method for symmetric optimization in a wide neighborhood of the central path. Optimization Letters, 2017, 11, 135-152.	0.9	14
312	The resolvent average on symmetric cones of JB-algebras. Linear Algebra and Its Applications, 2017, 520, 260-273.	0.4	0
313	Use of proximal operator graph solver for radiation therapy inverse treatment planning. Medical Physics, 2017, 44, 1246-1256.	1.6	7
314	New complexity analysis of a full Nesterov–Todd step interior-point method for semidefinite optimization. Asian-European Journal of Mathematics, 2017, 10, 1750070.	0.2	4
315	Two wide neighborhood interior-point methods for symmetric cone optimization. Computational Optimization and Applications, 2017, 68, 29-55.	0.9	4
316	Hopping trajectory optimization for surface exploration on small bodies. Advances in Space Research, 2017, 60, 90-102.	1.2	15
317	Reentry trajectory optimization with waypoint and no-fly zone constraints using multiphase convex programming. Acta Astronautica, 2017, 137, 60-69.	1.7	58
318	A polynomial primal-dual affine scaling algorithm for symmetric conic optimization. Computational Optimization and Applications, 2017, 66, 577-600.	0.9	2
319	Polynomial Convergence of Primal-Dual Path-Following Algorithms for Symmetric Cone Programming Based on Wide Neighborhoods and a New Class of Directions. Journal of the Operations Research Society of China, 2017, 5, 333-346.	0.9	4
320	An infeasible full-NT step IPM for horizontal linear complementarity problem over Cartesian product of symmetric cones. Optimization, 2017, 66, 225-250.	1.0	12
321	A Predictor-corrector Infeasible-interior-point Algorithm for Semidefinite Optimization in a Wide Neighborhood. Fundamenta Informaticae, 2017, 152, 33-50.	0.3	10
322	A primal–dual predictor–corrector interior-point method for symmetric cone programming with O(â^šr log ϵâ^'1) iteration complexity. International Journal of Computer Mathematics, 2017, 94, 1998-2010.	1.0	1
323	Lower bound plane stress element for modelling 3D structures. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2017, , 1-11.	0.4	2
324	A full NT-step infeasible interior-point algorithm for semidefinite optimization. RAIRO - Operations Research, 2017, 51, 533-545.	1.0	0
325	A Wide Neighborhood Second-order Predictor-corrector Interior-point Algorithm for Semidefinite Optimization with Modified Corrector Directions. Fundamenta Informaticae, 2017, 153, 327-346.	0.3	4
326	Elliptic cone optimization and primal–dual path-following algorithms. Optimization, 2017, 66, 2245-2274.	1.0	6
327	A new infeasible-interior-point algorithm for linear programming over symmetric cones. Acta Mathematicae Applicatae Sinica, 2017, 33, 771-788.	0.4	17

#	Article	IF	CITATIONS
328	On the Central Paths in Symmetric Cone Programming. Journal of Optimization Theory and Applications, 2017, 172, 649-668.	0.8	2
329	A primal-dual interior-point algorithm for symmetric optimization based on a new kernel function with trigonometric barrier term yielding the best known iteration bounds. Afrika Matematika, 2017, 28, 389-406.	0.4	1
330	Customized Real-Time Interior-Point Methods for Onboard Powered-Descent Guidance. Journal of Guidance, Control, and Dynamics, 2017, 40, 197-212.	1.6	103
331	An infeasible full-NT step interior point algorithm for CQSCO. Numerical Algorithms, 2017, 74, 93-109.	1.1	2
332	A Corrector-Predictor Interior-Point Algorithm for Pâ^—(κ)-HLCPs Over Cartesian Product of Symmetric Cones. Numerical Functional Analysis and Optimization, 2017, 38, 20-38.	0.6	4
333	Solution of Monotone Complementarity and General Convex Programming Problems Using a Modified Potential Reduction Interior Point Method. INFORMS Journal on Computing, 2017, 29, 36-53.	1.0	3
334	Joint multicast and unicast beamforming for the MISO downlink interference channel. , 2017, , .		17
335	Modified polynomial-time full-NT-step infeasible interior-point algorithm for symmetric optimisation. International Journal of Operational Research, 2017, 28, 290.	0.1	0
336	Optimal File Dissemination and Beamforming for Cache-Enabled C-RANs. IEEE Access, 2018, 6, 6390-6399.	2.6	6
337	A primal-dual interior-point algorithm for symmetric optimization based on a new method for finding search directions. Optimization, 2018, 67, 889-905.	1.0	12
338	Optimal Stochastic Eco-Routing Solutions for Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3807-3817.	4.7	35
339	\$LDL^T\$ Direction Interior Point Method for Semidefinite Programming. SIAM Journal on Optimization, 2018, 28, 693-734.	1.2	0
340	Optimal Risk Transfer: A Numerical Optimization Approach. North American Actuarial Journal, 2018, 22, 341-364.	0.8	6
341	The solution of euclidean norm trust region SQP subproblems via second-order cone programs: an overview and elementary introduction. Optimization Methods and Software, 2018, 33, 70-91.	1.6	1
342	Primal-dual potential reduction algorithm for symmetric programming problems with nonlinear objective functions. Linear Algebra and Its Applications, 2018, 536, 228-249.	0.4	2
343	An extension of Chubanov's polynomial-time linear programming algorithm to second-order cone programming. Optimization Methods and Software, 2018, 33, 1-25.	1.6	12
344	Distributed Semidefinite Programming With Application to Large-Scale System Analysis. IEEE Transactions on Automatic Control, 2018, 63, 1045-1058.	3.6	15
345	An infeasible interior point method for the monotone SDLCP based on a transformation of the central path. Journal of Applied Mathematics and Computing, 2018, 57, 685-702.	1.2	3

#	Article	IF	CITATIONS
346	3-D Placement of an Unmanned Aerial Vehicle Base Station for Maximum Coverage of Users With Different QoS Requirements. IEEE Wireless Communications Letters, 2018, 7, 38-41.	3.2	363
347	Advances in the simulation of viscoplastic fluid flows using interior-point methods. Computer Methods in Applied Mechanics and Engineering, 2018, 330, 368-394.	3.4	45
348	Chordal Conversion Based Convex Iteration Algorithm for Three-Phase Optimal Power Flow Problems. IEEE Transactions on Power Systems, 2018, 33, 1603-1613.	4.6	36
349	A Modified and Simplified Full Nesterov–Todd Step \$\$mathcal {O}(N)\$\$ O (N) Infeasible Interior-Point Method for Second-Order Cone Optimization. Journal of the Operations Research Society of China, 2018, 6, 301-315.	0.9	1
350	Efficient Solutions of Interval Programming Problems with Inexact Parameters and Second Order Cone Constraints. Mathematics, 2018, 6, 270.	1.1	1
351	A Single-Phase, Proximal Path-Following Framework. Mathematics of Operations Research, 2018, 43, 1326-1347.	0.8	3
352	FlexStream. , 2018, , .		6
353	A full Nesterov-Todd step primal-dual path-following interior-point algorithm for semidefinite linear complementarity problems. Croatian Operational Research Review, 2018, 9, 37-50.	0.6	0
354	New Interior-Point Algorithm for Symmetric Optimization Based on a Positive-Asymptotic Barrier Function. Numerical Functional Analysis and Optimization, 2018, 39, 1705-1726.	0.6	9
355	Conic Optimization Theory: Convexification Techniques and Numerical Algorithms. , 2018, , .		4
356	A long-step interior-point algorithm for symmetric cone Cartesian <i>P</i> _* (κ)-HLCP. Optimization, 2018, 67, 2031-2060.	1.0	6
358	Three-Dimensional Drone-Cell Deployment for Congestion Mitigation in Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 9867-9881.	3.9	19
359	Infeasible interior-point method for symmetric optimization using a positive-asymptotic barrier. Computational Optimization and Applications, 2018, 71, 483-508.	0.9	8
360	Optimization Methods for Financial Index Tracking: From Theory to Practice. Foundations and Trends® in Optimization, 2018, 3, 171-279.	7.2	17
361	Simplified full Nesterov–Todd step infeasible interior-point algorithm for semidefinite optimization based on a kernel function. Journal of Applied Mathematics and Computing, 2019, 59, 445-463.	1.2	2
362	A fast interior-point method for atomic norm soft thresholding. Signal Processing, 2019, 165, 7-19.	2.1	4
363	qpSWIFT: A Real-Time Sparse Quadratic Program Solver for Robotic Applications. IEEE Robotics and Automation Letters, 2019, 4, 3355-3362.	3.3	41
364	Algorithm for distance list extraction from pair distribution functions. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 658-668.	0.0	9

#	Article	IF	CITATIONS
365	Joint Trajectory and Scheduling Optimization for The Mobile UAV Aerial Base Station: A Fairness Version. Applied Sciences (Switzerland), 2019, 9, 3101.	1.3	3
366	A Primal-dual Interior-point Algorithm for Symmetric Cone Convex Quadratic Programming Based on the Commutative Class Directions. Acta Mathematicae Applicatae Sinica, 2019, 35, 359-373.	0.4	1
367	Interior point method on semi-definite linear complementarity problems using the Nesterov–Todd (NT) search direction: polynomial complexity and local convergence. Computational Optimization and Applications, 2019, 74, 583-621.	0.9	3
368	A new wide neighbourhood primal-dual interior-point algorithm for semidefinite optimization. Optimization, 2019, 68, 2247-2267.	1.0	2
369	Linear Covariance-Based Optimal Sensor Selection for GN&C System Using Second-Order Cone Programming. Journal of Aerospace Engineering, 2019, 32, 04019024.	0.8	0
370	A primal-dual interior-point algorithm with arc-search for semidefinite programming. Optimization Letters, 2019, 13, 1157-1175.	0.9	8
371	On a Box-Constrained Linear Symmetric Cone Optimization Problem. Journal of Optimization Theory and Applications, 2019, 181, 946-971.	0.8	3
372	Scalable Solvers for Cone Complementarity Problems in Frictional Multibody Dynamics. , 2019, , .		1
373	A modified infeasible interior-point algorithm with full-Newton step for semidefinite optimization. International Journal of Computer Mathematics, 2019, 96, 1979-1992.	1.0	1
374	Large-Neighborhood Infeasible Predictor–Corrector Algorithm for Horizontal Linear Complementarity Problems over Cartesian Product of Symmetric Cones. Journal of Optimization Theory and Applications, 2019, 180, 811-829.	0.8	7
375	A long-step feasible predictor–corrector interior-point algorithm for symmetric cone optimization. Optimization Methods and Software, 2019, 34, 336-362.	1.6	0
376	Conic optimization for control, energy systems, and machine learning: Applications and algorithms. Annual Reviews in Control, 2019, 47, 323-340.	4.4	3
377	Quadratic convergence to the optimal solution of second-order conic optimization without strict complementarity. Optimization Methods and Software, 2019, 34, 960-990.	1.6	1
378	An Adaptive Infeasible-Interior-Point Method with the One-Norm Wide Neighborhood for Semi-definite Programming. Journal of Scientific Computing, 2019, 78, 1790-1810.	1.1	1
379	Self-concordant inclusions: a unified framework for path-following generalized Newton-type algorithms. Mathematical Programming, 2019, 177, 173-223.	1.6	4
380	Return-mapping algorithms for associative isotropic hardening plasticity using conic optimization. Applied Mathematical Modelling, 2020, 78, 724-748. On the nonlinear matrix equation <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>2.2</td><td>10</td></mml:math>	2.2	10
381	display="inline" id="d1e1547" altimg="si10.svg"> <mml:mrow><mml:msup><mml:mrow><mml:mi>X</mml:mi></mml:mrow><mml:mrow><m linebreak="goodbreak" linebreakstyle="after">=<mml:mi>A</mml:mi><ml:mo linebreak="goodbreak"</ml:mo </m </mml:mrow></mml:msup></mml:mrow>	nl:mi>p <td>nml:mi></td>	nml:mi>

#	Article	IF	CITATIONS
383	A survey on conic relaxations of optimal power flow problem. European Journal of Operational Research, 2020, 287, 391-409.	3.5	54
384	Optimization of Sparse Cross Array Synthesis via Perturbed Convex Optimization. Sensors, 2020, 20, 4929.	2.1	3
385	Truss geometry and topology optimization with global stability constraints. Structural and Multidisciplinary Optimization, 2020, 62, 1721-1737.	1.7	11
386	A Second-order Corrector Infeasible Interior-point Method with One-norm wide Neighborhood for Symmetric Optimization. Fundamenta Informaticae, 2020, 172, 343-359.	0.3	1
387	Quadratic Program on a Structured Nonconvex Set. Mathematical Problems in Engineering, 2020, 2020, 2020, 1-6.	0.6	0
388	Full Nesterov-Todd step feasible interior-point algorithm for symmetric cone horizontal linear complementarity problem based on a positive-asymptotic barrier function. Optimization Methods and Software, 2022, 37, 192-213.	1.6	5
389	Solvability for Two Forms of Nonlinear Matrix Equations. Bulletin of the Iranian Mathematical Society, 2021, 47, 1107-1120.	0.4	2
390	Gaddum's test for symmetric cones. Journal of Global Optimization, 2021, 79, 927-940.	1.1	0
391	The Karcher mean of linearly independent triples. Linear Algebra and Its Applications, 2021, 610, 203-221.	0.4	5
392	An arc-search infeasible interior-point method for semidefinite optimization with the negative infinity neighborhood. Numerical Algorithms, 2021, 88, 143-163.	1.1	1
393	A primal-dual interior point trust-region method for nonlinear semidefinite programming. Optimization Methods and Software, 2021, 36, 569-601.	1.6	3
394	Comprehensive survey on convex analysis in robust optimization. Journal of Physics: Conference Series, 2021, 1722, 012075.	0.3	1
396	An algorithm for nonsymmetric conic optimization inspired by MOSEK. Optimization Methods and Software, 2022, 37, 1027-1064.	1.6	4
397	A primal-dual interior-point algorithm for nonsymmetric exponential-cone optimization. Mathematical Programming, 2022, 194, 341-370.	1.6	25
398	An iteration predictor–corrector interior-point method with a new one-norm neighbourhood for symmetric cone optimization. Optimization, 0, , 1-19.	1.0	0
399	Quantum algorithms for Second-Order Cone Programming and Support Vector Machines. Quantum - the Open Journal for Quantum Science, 0, 5, 427.	0.0	12
400	Nonhomogeneous Karcher equations with vector fields on positive definite matrices. European Journal of Mathematics, 2021, 7, 1291.	0.2	2
401	BW-MaxEnt: A Novel MCDM Method for Limited Knowledge. Mathematics, 2021, 9, 1587.	1.1	1

#	Article	IF	CITATIONS
402	A primal–dual interior point method for a novel type-2 second order cone optimization. Results in Control and Optimization, 2021, 4, 100042.	1.3	1
403	Interior Point Methods for Combinatorial Optimization. , 1998, , 189-297.		21
404	An Introduction to Formally Real Jordan Algebras and Their Applications in Optimization. Profiles in Operations Research, 2012, , 297-337.	0.3	5
405	Self-Regular Interior-Point Methods for Semidefinite Optimization. Profiles in Operations Research, 2012, , 437-454.	0.3	2
406	On the Implementation and Usage of SDPT3 – A Matlab Software Package for Semidefinite-Quadratic-Linear Programming, Version 4.0. Profiles in Operations Research, 2012, , 715-754.	0.3	97
407	Numerical Evaluation of SDPA (Semidefinite Programming Algorithm). Applied Optimization, 2000, , 267-301.	0.4	23
408	Central Region Method. Applied Optimization, 2000, , 157-194.	0.4	6
409	Interior-Point Algorithms for Nonlinear Model Predictive Control. , 2007, , 207-216.		4
410	Interior Point Methods for Nonlinear Optimization. Lecture Notes in Mathematics, 2010, , 215-276.	0.1	169
414	Bipartite Matching in Nearly-linear Time on Moderately Dense Graphs. , 2020, , .		42
415	Sparse Portfolios for High-Dimensional Financial Index Tracking. IEEE Transactions on Signal Processing, 2018, 66, 155-170.	3.2	46
416	PRIMAL-DUAL ALGORITHMS FOR SEMIDEFINIT OPTIMIZATION PROBLEMS BASED ON GENERALIZED TRIGONOMETRIC BARRIER FUNCTION. International Journal of Pure and Applied Mathematics, 2017, 114, .	0.2	3
418	Optimal Risk Transfer: A Numerical Optimisation Approach. SSRN Electronic Journal, 0, , .	0.4	2
419	Decomposition Scheme for Continuous Network Design Problem with Asymmetric User Equilibria. , 0, .		13
420	A full-Newton step interior-point algorithm for symmetric cone convex quadratic optimization. Journal of Industrial and Management Optimization, 2011, 7, 891-906.	0.8	10
421	A full Nesterov-Todd step infeasible interior-point algorithm for symmetric optimization based on a specific kernel function. Numerical Algebra, Control and Optimization, 2013, 3, 601-614.	1.0	6
422	\$\${cal U}{cal V}\$\$-theory of a Class of Semidefinite Programming and Its Applications. Acta Mathematicae Applicatae Sinica, 2021, 37, 717-737.	0.4	0
423	Recent Developments in Interior-Point Methods. IFIP Advances in Information and Communication Technology, 2000, , 311-333.	0.5	1

#	Article	IF	CITATIONS
425	On the Behavior of the Homogeneous Self-Dual Model for Conic Convex Optimization. SSRN Electronic Journal, 0, , .	0.4	2
426	Implementation Issues of Second-Order Cone Programming Approaches for Support Vector Machine Learning Problems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 1209-1222.	0.2	0
427	Métodos de punto interior para optimización cuadrática convexa con matrices no definidas positivas. Revista De Matemática: TeorÃa Y Aplicaciones, 2008, 15, 1.	0.1	0
429	Interior Point Algorithms and Applications. Lecture Notes in Electrical Engineering, 2011, , 165-172.	0.3	0
430	Numerical Analysis of Cable Networks. , 2011, , 205-228.		0
431	A new primal-dual path-following interior-point algorithm for convex quadratic semidefinite optimization with full Nesterov-Todd step. , 2012, , .		0
432	A new primal-dual interior-point algorithm for CQSDO based on a finite barrier. , 2012, , .		0
433	Kernel function based interior-point algorithms for semidefinite optimization. Mathematical Inequalities and Applications, 2013, , 1279-1294.	0.1	0
434	Interior Point Methods. , 2015, , 705-709.		0
435	Basic Properties of Linear Programs. Profiles in Operations Research, 2016, , 11-31.	0.3	0
436	HOMOGENEOUS SELF-DUAL METHODS FOR SYMMETRIC CONES UNDER UNCERTAINTY. Far East Journal of Mathematical Sciences, 2016, 99, 1603-1632.	0.0	0
437	STRESS CONSTRAINED TOPOLOGY OPTIMIZATION VIA SEQUENTIAL SECOND ORDER CONE PROGRAMMING. , 2017, , .		0
438	New complexity analysis of full Nesterov-Todd step infeasible interior point method for second-order cone optimization. Yugoslav Journal of Operations Research, 2018, 28, 21-38.	0.5	0
439	PRIMAL-DUAL ALGORITHMS FOR SEMIDEFINITE OPTIMIZATION PROBLEMS BASED ON KERNEL-FUNCTION WITH TRIGONOMETRIC BARRIER TERM. International Journal of Applied Mathematics, 2019, 32, .	0.2	1
440	Practical Design and Modelling of Precast Concrete Structures. Current Trends in Civil & Structural Engineering, 2019, 3, .	0.6	1
441	Conic Linear Programming. Profiles in Operations Research, 2021, , 165-198.	0.3	4
442	On the nonlinear matrix equation <i>X^p</i> = <i>A#_t</i> (<i>M^T</i> (<i>X</i> ^{â€"1} + <i>B</i>) ^{â€"1}) Tj ETQ	q 0.0 0 rgl	3T1/Overlock
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#	Article	IF	CITATIONS
444	Applications of Stochastic Mixed-Integer Second-Order Cone Optimization. IEEE Access, 2022, 10, 3522-3547.	2.6	0
445	Projectively Self-Concordant Barriers. Mathematics of Operations Research, 2022, 47, 2444-2463.	0.8	0
446	<pre>\$\$mathtt {Tenscalc}\$\$: a toolbox to generate fast code to solve nonlinear constrained minimizations and compute Nash equilibria. Mathematical Programming Computation, 0, , 1.</pre>	3.2	3
447	Gain and Phase Calibration of Uniform Rectangular Arrays Based on Convex Optimization and Neural Networks. Electronics (Switzerland), 2022, 11, 718.	1.8	1
448	Interior Point Methods for Semidefinite Programming. , 2008, , 1679-1683.		0
453	Convergence to a second-order critical point by a primal-dual interior point trust-region method for nonlinear semidefinite programming. Optimization Methods and Software, 2022, 37, 2190-2224.	1.6	1
454	Solving Natural Conic Formulations with Hypatia.jl. INFORMS Journal on Computing, 2022, 34, 2686-2699.	1.0	11
455	Energy aware fixed priority scheduling in mixed-criticality systems. Computer Standards and Interfaces, 2023, 83, 103671.	3.8	10
456	A Scalable Method for Semidefinite Programming Based Distribution System State Estimation. , 2022, , .		0
457	Computing Conjugate Barrier Information for Nonsymmetric Cones. Journal of Optimization Theory and Applications, 0, , .	0.8	0
458	Performance enhancements for a generic conic interior point algorithm. Mathematical Programming Computation, 2023, 15, 53-101.	3.2	4
459	New Predictor–Corrector Algorithm for Symmetric Cone Horizontal Linear Complementarity Problems. Journal of Optimization Theory and Applications, 0, , .	0.8	1
460	A limiting analysis on regularization of singular SDP and its implication to infeasible interior-point algorithms. Mathematical Programming, 0, , .	1.6	0
461	Conic Optimization with Spectral Functions on Euclidean Jordan Algebras. Mathematics of Operations Research, 0, , .	0.8	3
462	A binomial expansion formula for weighted geometric means of unipotent matrices. Linear and Multilinear Algebra, 2024, 72, 615-630.	0.5	2
463	Implementation in Java of Algorithms for Semidefinite Optimization. Műszaki Tudományos Közlemények, 2022, 17, 6-10.	0.1	1
464	Mixed-integer trajectory optimization with no-fly zone constraints for a hypersonic vehicle. Acta Astronautica, 2023, 207, 331-339.	1.7	1
465	Corrector-Predictor Interior-Point Method With New Search Direction for Semidefinite Optimization. Journal of Scientific Computing, 2023, 95, .	1.1	Ο

#	Article	IF	CITATIONS
466	An Algebraic-Based Primal–Dual Interior-Point Algorithm for Rotated Quadratic Cone Optimization. Computation, 2023, 11, 50.	1.0	0
470	Differentiable Collision Detection for a Set of Convex Primitives. , 2023, , .		1