Liqun Qi

List of Publications by Citations

325 papers	12,094 citations	53 h-index	96 g-index
341 ext. papers	13,480 ext. citations	1.6 avg, IF	7.13 L-index

#	Paper	IF	Citations
325	A nonsmooth version of Newton's method. *Mathematical Programming*, **1993**, 58, 353-367	2.1	989
324	Eigenvalues of a real supersymmetric tensor. *Journal of Symbolic Computation*, **2005**, 40, 1302-1324	0.8	760
323	Convergence Analysis of Some Algorithms for Solving Nonsmooth Equations. *Mathematics of Operations Research*, **1993**, 18, 227-244	1.5	551
322	A new look at smoothing Newton methods for nonlinear complementarity problems and box constrained variational inequalities. *Mathematical Programming*, **2000**, 87, 1-35	2.1	282
321	Nonsmooth Equations: Motivation and Algorithms. *SIAM Journal on Optimization*, **1993**, 3, 443-465	2	262
320	Does diffusion kurtosis imaging lead to better neural tissue characterization? A rodent brain maturation study. *NeuroImage*, **2009**, 45, 386-92	7.9	209
319	Towards better MR characterization of neural tissues using directional diffusion kurtosis analysis. *NeuroImage*, **2008**, 42, 122-34	7.9	202
318	Finding the Largest Eigenvalue of a Nonnegative Tensor. *SIAM Journal on Matrix Analysis and Applications*, **2010**, 31, 1090-1099	1.5	190
317	Smoothing Methods and Semismooth Methods for Nondifferentiable Operator Equations. *SIAM Journal on Numerical Analysis*, **2000**, 38, 1200-1216	2.4	172
316	M-tensors and nonsingularM-tensors. *Linear Algebra and Its Applications*, **2013**, 439, 3264-3278	0.9	166
315	M-Tensors and Some Applications. *SIAM Journal on Matrix Analysis and Applications*, **2014**, 35, 437-452	1.5	161
314	Eigenvalues and invariants of tensors. *Journal of Mathematical Analysis and Applications*, **2007**, 325, 1363-1377	1.1	147
313	A smoothing method for mathematical programs with equilibrium constraints. *Mathematical Programming*, **1999**, 85, 107-134	2.1	146
312	A smoothing method for mathematical programs with equilibrium constraints **1999**, 85, 107		134
311	Tensor Analysis **2017**,		132
310	Symmetric nonnegative tensors and copositive tensors. *Linear Algebra and Its Applications*, **2013**, 439, 228-238	0.9	129
309	On the Constant Positive Linear Dependence Condition and Its Application to SQP Methods. *SIAM Journal on Optimization*, **2000**, 10, 963-981	2	121

308	Higher Order Positive Semidefinite Diffusion Tensor Imaging. *SIAM Journal on Imaging Sciences*, **2010**, 3, 416-433	1.9	118
307	On NCP-Functions. *Computational Optimization and Applications*, **1999**, 13, 201-220	1.4	110
306	New quasi-Newton methods for unconstrained optimization problems. *Applied Mathematics and Computation*, **2006**, 175, 1156-1188	2.7	107
305	A New Nonsmooth Equations Approach to Nonlinear Complementarity Problems. *SIAM Journal on Control and Optimization*, **1997**, 35, 178-193	1.9	106
304	Z-eigenvalue methods for a global polynomial optimization problem. *Mathematical Programming*, **2009**, 118, 301-316	2.1	105
303	An Eigenvalue Method for Testing Positive Definiteness of a Multivariate Form. *IEEE Transactions on Automatic Control*, **2008**, 53, 1096-1107	5.9	97
302	D-eigenvalues of diffusion kurtosis tensors. *Journal of Computational and Applied Mathematics*, **2008**, 221, 150-157	2.4	97
301	Properties of Some Classes of Structured Tensors. *Journal of Optimization Theory and Applications*, **2015**, 165, 854-873	1.6	95
300	On determinants and eigenvalue theory of tensors. *Journal of Symbolic Computation*, **2013**, 50, 508-531	0.8	92
299	Positive-Definite Tensors to Nonlinear Complementarity Problems. *Journal of Optimization Theory and Applications*, **2016**, 168, 475-487	1.6	85
298	Inexact Newton methods for solving nonsmooth equations. *Journal of Computational and Applied Mathematics*, **1995**, 60, 127-145	2.4	85
297	The sparsest solutions to Z-tensor complementarity problems. *Optimization Letters*, **2017**, 11, 471-482	1.1	84
296	H+-eigenvalues of Laplacian and signless Laplacian tensors. *Communications in Mathematical Sciences*, **2014**, 12, 1045-1064	1	83
295	Algebraic connectivity of an even uniform hypergraph. *Journal of Combinatorial Optimization*, **2012**, 24, 564-579	0.9	81
294	Semismooth Karush-Kuhn-Tucker Equations and Convergence Analysis of Newton and Quasi-Newton Methods for Solving these Equations. *Mathematics of Operations Research*, **1997**, 22, 301-325	1.5	81
293	Formulating an n-person noncooperative game as a tensor complementarity problem. *Computational Optimization and Applications*, **2017**, 66, 557-576	1.4	79
292	Tensor Complementarity Problem and Semi-positive Tensors. *Journal of Optimization Theory and Applications*, **2016**, 169, 1069-1078	1.6	76
291	Numerical multilinear algebra and its applications. *Frontiers of Mathematics in China*, **2007**, 2, 501-526	0.8	76

290	Superlinearly convergent approximate Newton methods for LC1 optimization problems. *Mathematical Programming*, **1994**, 64, 277-294	2.1	76
289	A practical method for computing the largest M-eigenvalue of a fourth-order partially symmetric tensor. *Numerical Linear Algebra With Applications*, **2009**, 16, 589-601	1.6	72
288	A survey on the spectral theory of nonnegative tensors. *Numerical Linear Algebra With Applications*, **2013**, 20, 891-912	1.6	71
287	Biquadratic Optimization Over Unit Spheres and Semidefinite Programming Relaxations. *SIAM Journal on Optimization*, **2010**, 20, 1286-1310	2	71
286	Cored hypergraphs, power hypergraphs and their Laplacian H-eigenvalues. *Linear Algebra and Its Applications*, **2013**, 439, 2980-2998	0.9	70
285	Computing Block-Angular Karmarkar Projections with Applications to Stochastic Programming. *Management Science*, **1988**, 34, 1472-1479	3.9	68
284	On Semismooth Newton's Methods for Total Variation Minimization. *Journal of Mathematical Imaging and Vision*, **2007**, 27, 265-276	1.6	67
283	The Z-eigenvalues of a symmetric tensor and its application to spectral hypergraph theory. *Numerical Linear Algebra With Applications*, **2013**, 20, 1001-1029	1.6	63
282	A Globally and Superlinearly Convergent Algorithm for Nonsmooth Convex Minimization. *SIAM Journal on Optimization*, **1996**, 6, 1106-1120	2	63
281	Tensor Eigenvalues and Their Applications. *Advances in Mechanics and Mathematics*, **2018**,	0.2	62
280	An even order symmetric B tensor is positive definite. *Linear Algebra and Its Applications*, **2014**, 457, 303-312	3.2	57
279	Rank and eigenvalues of a supersymmetric tensor, the multivariate homogeneous polynomial and the algebraic hypersurface it defines. *Journal of Symbolic Computation*, **2006**, 41, 1309-1327	0.8	57
278	A globally convergent Newton method for convex SC1 minimization problems. *Journal of Optimization Theory and Applications*, **1995**, 85, 633-648	1.6	57
277	The degree of the E-characteristic polynomial of an even order tensor. *Journal of Mathematical Analysis and Applications*, **2007**, 329, 1218-1229	1.1	56
276	A Trust Region Method for Solving Generalized Complementarity Problems. *SIAM Journal on Optimization*, **1998**, 8, 140-157	2	55
275	A parameterized Newton method and a quasi-Newton method for nonsmooth equations. *Computational Optimization and Applications*, **1994**, 3, 157-179	1.4	54
274	The eigenvectors associated with the zero eigenvalues of the Laplacian and signless Laplacian tensors of a uniform hypergraph. *Discrete Applied Mathematics*, **2014**, 169, 140-151	1	53
273	Conditions for Strong Ellipticity of Anisotropic Elastic Materials. *Journal of Elasticity*, **2009**, 97, 1-13	1.5	53

272	Sub-quadratic convergence of a smoothing Newton algorithm for the P 0 and monotone LCP. *Mathematical Programming*, **2004**, 99, 423-441	2.1	53
271	Smoothing Functions and Smoothing Newton Method for Complementarity and Variational Inequality Problems. *Journal of Optimization Theory and Applications*, **2002**, 113, 121-147	1.6	52
270	The Best Rank-1 Approximation of a Symmetric Tensor and Related Spherical Optimization Problems. *SIAM Journal on Matrix Analysis and Applications*, **2012**, 33, 806-821	1.5	51
269	New nonlinear conjugate gradient formulas for large-scale unconstrained optimization problems. *Applied Mathematics and Computation*, **2006**, 179, 407-430	2.7	51
268	Deriving sufficient conditions for global asymptotic stability of delayed neural networks via nonsmooth analysis. *IEEE Transactions on Neural Networks*, **2004**, 15, 99-109		51
267	Conditions for strong ellipticity and M-eigenvalues. *Frontiers of Mathematics in China*, **2009**, 4, 349-364	0.8	50
266	Improving the convergence of non-interior point algorithms for nonlinear complementarity problems. *Mathematics of Computation*, **1999**, 69, 283-305	1.6	50
265	The extremal spectral radii of (k)-uniform supertrees. *Journal of Combinatorial Optimization*, **2016**, 32, 741-764	0.9	49
264	Strictly nonnegative tensors and nonnegative tensor partition. *Science China Mathematics*, **2014**, 57, 1815-1825		49
263	Convergence of Newton's Method for Singular Smooth and Nonsmooth Equations Using Adaptive Outer Inverses. *SIAM Journal on Optimization*, **1997**, 7, 445-462	2	49
262	A novel neural network for variational inequalities with linear and nonlinear constraints. *IEEE Transactions on Neural Networks*, **2005**, 16, 1305-17		49
261	Descent Directions of Quasi-Newton Methods for Symmetric Nonlinear Equations. *SIAM Journal on Numerical Analysis*, **2002**, 40, 1763-1774	2.4	49
260	A New QP-Free, Globally Convergent, Locally Superlinearly Convergent Algorithm For Inequality Constrained Optimization. *SIAM Journal on Optimization*, **2000**, 11, 113-132	2	49
259	A Globally Convergent Successive Approximation Method for Severely Nonsmooth Equations. *SIAM Journal on Control and Optimization*, **1995**, 33, 402-418	1.9	49
258	The Best Rank-One Approximation Ratio of a Tensor Space. *SIAM Journal on Matrix Analysis and Applications*, **2011**, 32, 430-442	1.5	48
257	Linear convergence of an algorithm for computing the largest eigenvalue of a nonnegative tensor. *Numerical Linear Algebra With Applications*, **2012**, 19, 830-841	1.6	45
256	P-tensors, P0-tensors, and their applications. *Linear Algebra and Its Applications*, **2018**, 555, 336-354	0.9	45
255	Nonnegative Tensor Factorization, Completely Positive Tensors, and a Hierarchical Elimination Algorithm. *SIAM Journal on Matrix Analysis and Applications*, **2014**, 35, 1227-1241	1.5	43

254	Quasi-Newton Bundle-Type Methods for Nondifferentiable Convex Optimization. *SIAM Journal on Optimization*, **1998**, 8, 583-603	2	43
253	Neurodynamical Optimization. *Journal of Global Optimization*, **2004**, 28, 175-195	1.5	43
252	Multivariate Polynomial Minimization and Its Application in Signal Processing. *Journal of Global Optimization*, **2003**, 26, 419-433	1.5	43
251	A Squared Smoothing Newton Method for Nonsmooth Matrix Equations and Its Applications in Semidefinite Optimization Problems. *SIAM Journal on Optimization*, **2004**, 14, 783-806	2	43
250	Singular values of a real rectangular tensor. *Journal of Mathematical Analysis and Applications*, **2010**, 370, 284-294	1.1	42
249	Active-Set Projected Trust-Region Algorithm for Box-Constrained Nonsmooth Equations. *Journal of Optimization Theory and Applications*, **2004**, 120, 601-625	1.6	41
248	Semismooth Newton Methods for Solving Semi-Infinite Programming Problems. *Journal of Global Optimization*, **2003**, 27, 215-232	1.5	41
247	The largest Laplacian and signless Laplacian H-eigenvalues of a uniform hypergraph. *Linear Algebra and Its Applications*, **2015**, 469, 1-27	0.9	40
246	Spectral Properties of Positively Homogeneous Operators Induced by Higher Order Tensors. *SIAM Journal on Matrix Analysis and Applications*, **2013**, 34, 1581-1595	1.5	40
245	Secant methods for semismooth equations. *Numerische Mathematik*, **1998**, 80, 305-324	2.2	40
244	Column sufficient tensors and tensor complementarity problems. *Frontiers of Mathematics in China*, **2018**, 13, 255-276	0.8	39
243	The Laplacian of a uniform hypergraph. *Journal of Combinatorial Optimization*, **2015**, 29, 331-366	0.9	38
242	A quadratically convergent algorithm for finding the largest eigenvalue of a nonnegative homogeneous polynomial map. *Journal of Global Optimization*, **2015**, 61, 627-641	1.5	37
241	A Smoothing Newton Method for Semi-Infinite Programming. *Journal of Global Optimization*, **2004**, 30, 169-194	1.5	37
240	Solving nonlinear complementarity problems with neural networks: a reformulation method approach. *Journal of Computational and Applied Mathematics*, **2001**, 131, 343-359	2.4	37
239	Directed submodularity, ditroids and directed submodular flows. *Mathematical Programming*, **1988**, 42, 579-599	2.1	37
238	Global convergence of the Polak-Ribire-Polyak conjugate gradient method with an Armijo-type inexact line search for nonconvex unconstrained optimization problems. *Mathematics of Computation*, **2008**, 77, 2173-2193	1.6	36
237	Some simple estimates for singular values of a matrix. *Linear Algebra and Its Applications*, **1984**, 56, 105-119	1.9	36

236	Necessary and sufficient conditions for copositive tensors. *Linear and Multilinear Algebra*, **2015**, 63, 120-131	0.7	35
235	New ALS Methods With Extrapolating Search Directions and Optimal Step Size for Complex-Valued Tensor Decompositions. *IEEE Transactions on Signal Processing*, **2011**, 59, 5888-5898	4.8	35
234	A smoothing method for solving portfolio optimization with CVaR and applications in allocation of generation asset. *Applied Mathematics and Computation*, **2010**, 216, 1723-1740	2.7	35
233	On the Convergence of a Trust-Region Method for Solving Constrained Nonlinear Equations with Degenerate Solutions. *Journal of Optimization Theory and Applications*, **2004**, 123, 187-211	1.6	35
232	On the Minimum Norm Solution of Linear Programs. *Journal of Optimization Theory and Applications* , **2003**, 116, 333-345	1.6	35
231	On the cone eigenvalue complementarity problem for higher-order tensors. *Computational Optimization and Applications*, **2016**, 63, 143-168	1.4	34
230	Comments on "Explicit criterion for the positive definiteness of a general quartic form". *IEEE Transactions on Automatic Control*, **2005**, 50, 416-418	5.9	34
229	A trust region algorithm for minimization of locally Lipschitzian functions. *Mathematical Programming*, **1994**, 66, 25-43	2.1	34
228	Strictly semi-positive tensors and the boundedness of tensor complementarity problems. *Optimization Letters*, **2017**, 11, 1407-1426	1.1	33
227	Tensor Complementarity Problems—Part I: Basic Theory. *Journal of Optimization Theory and Applications*, **2019**, 183, 1-23	1.6	33
226	Infinite and finite dimensional Hilbert tensors. *Linear Algebra and Its Applications*, **2014**, 451, 1-14	0.9	33
225	Stability Analysis of Gradient-Based Neural Networks for Optimization Problems. *Journal of Global Optimization*, **2001**, 19, 363-381	1.5	33
224	Positive definiteness and semi-definiteness of even order symmetric Cauchy tensors. *Journal of Industrial and Management Optimization*, **2015**, 11, 1263-1274	2	33
223	Fast Hankel tensor–vector product and its application to exponential data fitting. *Numerical Linear Algebra With Applications*, **2015**, 22, 814-832	1.6	32
222	A semidefinite program approach for computing the maximum eigenvalue of a class of structured tensors and its applications in hypergraphs and copositivity test. *Numerical Linear Algebra With Applications*, **2018**, 25, e2125	1.6	32
221	Regular Pseudo-Smooth NCP and BVIP Functions and Globally and Quadratically Convergent Generalized Newton Methods for Complementarity and Variational Inequality Problems. *Mathematics of Operations Research*, **1999**, 24, 440-471	1.5	32
220	Hankel tensors: Associated Hankel matrices and Vandermonde decomposition. *Communications in Mathematical Sciences*, **2015**, 13, 113-125	1	32
219	A Feasible Sequential Linear Equation Method for Inequality Constrained Optimization. *SIAM Journal on Optimization*, **2003**, 13, 1222-1244	2	31

218	Generalized tensor function via the tensor singular value decomposition based on the T-product. *Linear Algebra and Its Applications*, **2020**, 590, 258-303	0.9	31
217	Nonnegative Diffusion Orientation Distribution Function. *Journal of Mathematical Imaging and Vision*, **2013**, 45, 103-113	1.6	30
216	Copositivity Detection of Tensors: Theory and Algorithm. *Journal of Optimization Theory and Applications*, **2017**, 174, 746-761	1.6	30
215	The SC1 property of an expected residual function arising from stochastic complementarity problems. *Operations Research Letters*, **2008**, 36, 456-460	1	30
214	Regularized Newton Methods for Convex Minimization Problems with Singular Solutions. *Computational Optimization and Applications*, **2004**, 28, 131-147	1.4	30
213	Local Uniqueness and Convergence of Iterative Methods for Nonsmooth Variational Inequalities. *Journal of Mathematical Analysis and Applications*, **1995**, 196, 314-331	1.1	30
212	Newton's method for quadratic stochastic programs with recourse. *Journal of Computational and Applied Mathematics*, **1995**, 60, 29-46	2.4	30
211	A Globally and Quadratically Convergent Algorithm for Solving Multilinear Systems with ({{{mathcal {M}}}})-tensors. *Journal of Scientific Computing*, **2018**, 76, 1718-1741	2.3	29
210	Tensor absolute value equations. *Science China Mathematics*, **2018**, 61, 1695-1710	0.8	29
209	Tensor Complementarity Problems—Part II: Solution Methods. *Journal of Optimization Theory and Applications*, **2019**, 183, 365-385	1.6	29
208	Regular uniform hypergraphs, s-cycles, s-paths and their largest Laplacian H-eigenvalues. *Linear Algebra and Its Applications*, **2014**, 443, 215-227	0.9	29
207	On the successive supersymmetric rank-1 decomposition of higher-order supersymmetric tensors. *Numerical Linear Algebra With Applications*, **2007**, 14, 503-519	1.6	28
206	Solving variational inequality problems via smoothing-nonsmooth reformulations. *Journal of Computational and Applied Mathematics*, **2001**, 129, 37-62	2.4	28
205	Copositive tensor detection and its applications in physics and hypergraphs. *Computational Optimization and Applications*, **2018**, 69, 133-158	1.4	28
204	Geometric Measure of Entanglement and U-Eigenvalues of Tensors. *SIAM Journal on Matrix Analysis and Applications*, **2014**, 35, 73-87	1.5	27
203	Principal invariants and inherent parameters of diffusion kurtosis tensors. *Journal of Mathematical Analysis and Applications*, **2009**, 349, 165-180	1.1	27
202	On Nonmonotone Chambolle Gradient Projection Algorithms for Total Variation Image Restoration. *Journal of Mathematical Imaging and Vision*, **2009**, 35, 143-154	1.6	27
201	A fast algorithm for the spectral radii of weakly reducible nonnegative tensors. *Numerical Linear Algebra With Applications*, **2018**, 25, e2134	1.6	27

200	Computing the geometric measure of entanglement of multipartite pure states by means of non-negative tensors. *Physical Review A*, **2016**, 93,	2.6	26
199	Smooth Convex Approximation to the Maximum Eigenvalue Function. *Journal of Global Optimization*, **2004**, 30, 253-270	1.5	26
198	Differentiability and semismoothness properties of integral functions and their applications. *Mathematical Programming*, **2005**, 102, 223-248	2.1	26
197	An iterative method for solving KKT system of the semi-infinite programming. *Optimization Methods and Software*, **2005**, 20, 629-643	1.3	26
196	An SQP algorithm for extended linear-quadratic problems in stochastic programming. *Annals of Operations Research*, **1995**, 56, 251-285	3.2	26
195	Global Uniqueness and Solvability of Tensor Variational Inequalities. *Journal of Optimization Theory and Applications*, **2018**, 177, 137-152	1.6	25
194	Tensor Complementarity ProblemsPart III: Applications. *Journal of Optimization Theory and Applications*, **2019**, 183, 771-791	1.6	25
193	Finding the extreme Z-eigenvalues of tensors via a sequential semidefinite programming method. *Numerical Linear Algebra With Applications*, **2013**, 20, 972-984	1.6	25
192	The cubic spherical optimization problems. *Mathematics of Computation*, **2012**, 81, 1513-1525	1.6	22
191	A smoothing projected Newton-type algorithm for semi-infinite programming. *Computational Optimization and Applications*, **2009**, 42, 1-30	1.4	22
190	Convergence of Newton's method for convex best interpolation. *Numerische Mathematik*, **2001**, 87, 435-456		22
189	A Smoothing Newton Method for Minimizing a Sum of Euclidean Norms. *SIAM Journal on Optimization*, **2000**, 11, 389-410	2	22
188	Positive definiteness of Diffusion Kurtosis Imaging. *Inverse Problems and Imaging*, **2012**, 6, 57-75	2.1	22
187	Convergence of an algorithm for the largest singular value of a nonnegative rectangular tensor. *Linear Algebra and Its Applications*, **2013**, 438, 959-968	0.9	21
186	Semismoothness of the maximum eigenvalue function of a symmetric tensor and its application. *Linear Algebra and Its Applications*, **2013**, 438, 813-833	0.9	21
185	A semi-infinite programming algorithm for solving optimal power flow with transient stability constraints. *Journal of Computational and Applied Mathematics*, **2008**, 217, 432-447	2.4	21
184	Semiregularity and Generalized Subdifferentials with Applications to Optimization. *Mathematics of Operations Research*, **1993**, 18, 982-1005	1.5	21
183	Eigenvalue analysis of constrained minimization problem for homogeneous polynomial. *Journal of Global Optimization*, **2016**, 64, 563-575	1.5	20

182	Octupolar tensors for liquid crystals. *Journal of Physics A: Mathematical and Theoretical*, **2018**, 51, 025206	1	20
181	Projected Pseudotransient Continuation. *SIAM Journal on Numerical Analysis*, **2008**, 46, 3071-3083	2.4	20
180	Programmable criteria for strong (mathcal {H})-tensors. *Numerical Algorithms*, **2017**, 74, 199-221	2.1	19
179	Global Error Bound for the Generalized Linear Complementarity Problem over a Polyhedral Cone. *Journal of Optimization Theory and Applications*, **2009**, 142, 417-429	1.6	19
178	The shortest path improvement problems under Hamming distance. *Journal of Combinatorial Optimization*, **2006**, 12, 351-361	0.9	19
177	Trust Region Algorithms for Solving Nonsmooth Equations. *SIAM Journal on Optimization*, **1995**, 5, 219-230	3	19
176	Linear-time separation algorithms for the three-index assignment polytope. *Discrete Applied Mathematics*, **1993**, 43, 1-12	1	19
175	The first few unicyclic and bicyclic hypergraphs with largest spectral radii. *Linear Algebra and Its Applications*, **2017**, 527, 141-162	0.9	18
174	Positive definiteness of paired symmetric tensors and elasticity tensors. *Journal of Computational and Applied Mathematics*, **2018**, 338, 22-43	2.4	18
173	On the largest eigenvalue of a symmetric nonnegative tensor. *Numerical Linear Algebra With Applications*, **2013**, 20, 913-928	1.6	18
172	On almost smooth functions and piecewise smooth functions. *Nonlinear Analysis: Theory, Methods & Applications*, **2007**, 67, 773-794	1.3	18
171	Globally and Superlinearly Convergent QP-Free Algorithm for Nonlinear Constrained Optimization. *Journal of Optimization Theory and Applications*, **2002**, 113, 297-323	1.6	18
170	T-Jordan Canonical Form and T-Drazin Inverse Based on the T-Product. *Communications on Applied Mathematics and Computation*, **2021**, 3, 201-220	0.9	18
169	Finding the Maximum Eigenvalue of Essentially Nonnegative Symmetric Tensors via Sum of Squares Programming. *Journal of Optimization Theory and Applications*, **2013**, 158, 717-738	1.6	17
168	MB-tensors and MB0-tensors. *Linear Algebra and Its Applications*, **2015**, 484, 141-153	0.9	17
167	No-Arbitrage Interpolation of the Option Price Function and Its Reformulation. *Journal of Optimization Theory and Applications*, **2004**, 120, 627-649	1.6	17
166	An SQP-Type Method and Its Application in Stochastic Programs. *Journal of Optimization Theory and Applications*, **2003**, 116, 205-228	1.6	17
165	Smoothing Trust Region Methods for Nonlinear Complementarity Problems with P 0-Functions. *Annals of Operations Research*, **2005**, 133, 99-117	3.2	17

164	Properties of the Moreau-Yosida regularization of a piecewise C2 convex function. *Mathematical Programming*, **1999**, 84, 269-281	2.1	17
163	Stochastic (R_0) tensors to stochastic tensor complementarity problems. *Optimization Letters*, **2019**, 13, 261-279	1.1	17
162	Modified gradient dynamic approach to the tensor complementarity problem. *Optimization Methods and Software*, **2020**, 35, 394-415	1.3	17
161	A new smoothing Newton-type algorithm for semi-infinite programming. *Journal of Global Optimization*, **2010**, 47, 133-159	1.5	16
160	Deriving sufficient conditions for global asymptotic stability of delayed neural networks via nonsmooth analysis--II. *IEEE Transactions on Neural Networks*, **2005**, 16, 1701-6		16
159	A Truncated Projected Newton-Type Algorithm for Large-Scale Semi-infinite Programming. *SIAM Journal on Optimization*, **2006**, 16, 1137-1154	2	16
158	Subdifferential Convergence in Stochastic Programs. *SIAM Journal on Optimization*, **1995**, 5, 436-453	2	16
157	Some new trace formulas of tensors with applications in spectral hypergraph theory. *Linear and Multilinear Algebra*, **2015**, 63, 971-992	0.7	15
156	A Tensor Analogy of Yuan₴ Theorem of the Alternative and Polynomial Optimization with Sign structure. *Journal of Optimization Theory and Applications*, **2016**, 168, 446-474	1.6	15
155	Higher-degree eigenvalue complementarity problems for tensors. *Computational Optimization and Applications*, **2016**, 64, 149-176	1.4	15
154	A semismooth Newton method for tensor eigenvalue complementarity problem. *Computational Optimization and Applications*, **2016**, 65, 109-126	1.4	15
153	Computing Extreme Eigenvalues of Large Scale Hankel Tensors. *Journal of Scientific Computing*, **2016**, 68, 716-738	2.3	15
152	Efficient algorithms for computing the largest eigenvalue of a nonnegative tensor. *Frontiers of Mathematics in China*, **2013**, 8, 155-168	0.8	15
151	E-characteristic polynomials of tensors. *Communications in Mathematical Sciences*, **2013**, 11, 33-53	1	15
150	Completely Positive Tensors: Properties, Easily Checkable Subclasses, and Tractable Relaxations. *SIAM Journal on Matrix Analysis and Applications*, **2016**, 37, 1675-1698	1.5	14
149	Convergence of a second order Markov chain. *Applied Mathematics and Computation*, **2014**, 241, 183-192	2.7	14
148	A NONMONOTONE FILTER BARZILAI-BORWEIN METHOD FOR OPTIMIZATION. *Asia-Pacific Journal of Operational Research*, **2010**, 27, 55-69	0.8	14
147	Worst-case CVaR based portfolio optimization models with applications to scenario planning. *Optimization Methods and Software*, **2009**, 24, 933-958	1.3	14

146	NCP Functions Applied to Lagrangian Globalization for the Nonlinear Complementarity Problem. *Journal of Global Optimization*, **2002**, 24, 261-283	1.5	14
145	Solving Karush--Kuhn--Tucker Systems via the Trust Region and the Conjugate Gradient Methods. *SIAM Journal on Optimization*, **2003**, 14, 439-463	2	14
144	An interior point algorithm of($O(\sqrt{m} \left\| {\ln \varepsilon} \right\|)$) iterations forC 1-convex programming. *Mathematical Programming*, **1992**, 57, 239-257	2.1	14
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142	Weak directional closedness and generalized subdifferentials. *Journal of Mathematical Analysis and Applications*, **1991**, 159, 485-499	1.1	13
141	The maximal normal operator space and integration of subdifferentials of nonconvex functions. *Nonlinear Analysis: Theory, Methods & Applications*, **1989**, 13, 1003-1011	1.3	13
140	SOS tensor decomposition: Theory and applications. *Communications in Mathematical Sciences*, **2016**, 14, 2073-2100	1	13
139	Linear operators and positive semidefiniteness of symmetric tensor spaces. *Science China Mathematics*, **2015**, 58, 197-212	0.8	12
138	How entangled can a multi-party system possibly be?. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2018**, 382, 1465-1471	2.3	12
137	Comon's Conjecture, Rank Decomposition, and Symmetric Rank Decomposition of Symmetric Tensors. *SIAM Journal on Matrix Analysis and Applications*, **2016**, 37, 1719-1728	1.5	12
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