Jin-Bao Jian

List of Publications by Year
in descending order

91	973	516710 16	580821 25
papers	citations	h-index	g-index

91	91	91	449
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel projected two-binary-variable formulation for unit commitment in power systems. Applied Energy, 2017, 187, 732-745.	10.1	50
2	A hybrid conjugate gradient method with descent property for unconstrained optimization. Applied Mathematical Modelling, 2015, 39, 1281-1290.	4.2	46
3	A hybrid three-term conjugate gradient projection method for constrained nonlinear monotone equations with applications. Numerical Algorithms, 2021, 88, 389-418.	1.9	42
4	An improved SQP algorithm for solving minimax problems. Applied Mathematics Letters, 2009, 22, 464-469.	2.7	35
5	Outer Approximation and Outer-Inner Approximation Approaches for Unit Commitment Problem. IEEE Transactions on Power Systems, 2014, 29, 505-513.	6.5	35
6	An improved priority list and neighborhood search method for unit commitment. International Journal of Electrical Power and Energy Systems, 2015, 67, 278-285.	5.5	32
7	Improved Fletcherâ€“Reeves and Daiâ€“Yuan conjugate gradient methods with the strong Wolfe line search. Journal of Computational and Applied Mathematics, 2019, 348, 525-534.	2.0	32
8	A new spectral conjugate gradient method for large-scale unconstrained optimization. Optimization Methods and Software, 2017, 32, 503-515.	2.4	30
9	Projected mixed integer programming formulations for unit commitment problem. International Journal of Electrical Power and Energy Systems, 2015, 68, 195-202.	5.5	28
10	Global Optimization of Non-Convex Hydro-Thermal Coordination Based on Semidefinite Programming. IEEE Transactions on Power Systems, 2013, 28, 3720-3728.	6.5	25
11	Tight Relaxation Method for Unit Commitment Problem Using Reformulation and Lift-and-Project. IEEE Transactions on Power Systems, 2015, 30, 13-23.	6.5	25
12	A new superlinearly convergent norm-relaxed method of strongly sub-feasible direction for inequality constrained optimization. Applied Mathematics and Computation, 2006, 182, 955-976.	2.2	24
13	Tighter relaxation method for unit commitment based on second-order cone programming and valid inequalities. International Journal of Electrical Power and Energy Systems, 2014, 55, 82-90.	5.5	24
14	A sufficient descent Daiâ€“Yuan type nonlinear conjugate gradient method for unconstrained optimization problems. Nonlinear Dynamics, 2013, 72, 101-112.	5.2	21
15	A feasible descent SQP algorithm for general constrained optimization without strict complementarity. Journal of Computational and Applied Mathematics, 2005, 180, 391-412.	2.0	20
16	A feasible SQP-GS algorithm for nonconvex, nonsmooth constrained optimization. Numerical Algorithms, 2014, 65, 1-22.	1.9	19
17	Sequential quadratically constrained quadratic programming norm-relaxed algorithm of strongly sub-feasible directions. European Journal of Operational Research, 2010, 200, 645-657.	5.7	18
18	A Spectral Conjugate Gradient Method with Descent Property. Mathematics, 2020, 8, 280.	2.2	16

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19	A generalized hybrid CGPM-based algorithm for solving large-scale convex constrained equations with applications to image restoration. Journal of Computational and Applied Mathematics, 2021, 391, 113423.	2.0	16
20	A New Superlinearly Convergent Strongly Subfeasible Sequential Quadratic Programming Algorithm for Inequality-Constrained Optimization. Numerical Functional Analysis and Optimization, 2008, 29, 376-409.	1.4	15
21	An efficient feasible SQP algorithm for inequality constrained optimization. Nonlinear Analysis: Real World Applications, 2009, 10, 1220-1228.	1.7	15
22	A new family of hybrid three-term conjugate gradient methods with applications in image restoration. Numerical Algorithms, 2022, 91, 161-191.	1.9	15
23	An improved SQP algorithm for inequality constrained optimization. Mathematical Methods of Operations Research, 2003, 58, 271-282.	1.0	14
24	A Superlinearly Convergent Implicit Smooth SQP Algorithm for Mathematical Programs with Nonlinear Complementarity Constraints. Computational Optimization and Applications, 2005, 31, 335-361.	1.6	14
25	A New Superlinearly Convergent SQP Algorithm for Nonlinear Minimax Problems. Acta Mathematicae Applicatae Sinica, 2007, 23, 395-410.	0.7	14
26	Multi-Cuts Outer Approximation Method for Unit Commitment. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	13
27	A QCQP-based splitting SQP algorithm for two-block nonconvex constrained optimization problems with application. Journal of Computational and Applied Mathematics, 2021, 390, 113368.	2.0	13
28	Generalized monotone line search SQP algorithm for constrained minimax problems. Optimization, 2009, 58, 101-131.	1.7	12
29	On second order duality for minimax fractional programming. Nonlinear Analysis: Real World Applications, 2011, 12, 3509-3514.	1.7	12
30	Some properties of semi--preinvex maps in Banach spaces. Nonlinear Analysis: Real World Applications, 2011, 12, 1243-1249.	1.7	11
31	An improved Polakâ€“RibiÃ¨reâ€“Polyak conjugate gradient method with an efficient restart direction. Computational and Applied Mathematics, 2021, 40, 1.	2.2	11
32	A sequential quadratically constrained quadratic programming method with an augmented Lagrangian line search function. Journal of Computational and Applied Mathematics, 2008, 220, 525-547.	2.0	10
33	A method combining norm-relaxed QP subproblems with systems of linear equations for constrained optimization. Journal of Computational and Applied Mathematics, 2009, 223, 1013-1027.	2.0	10
34	A sequential quadratically constrained quadratic programming method for unconstrained minimax problems. Journal of Mathematical Analysis and Applications, 2010, 362, 34-45.	1.0	10
35	On the accurate identification of active set for constrained minimax problems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 3022-3032.	1.1	10
36	A superlinearly convergent method of quasi-strongly sub-feasible directions with active set identifying for constrained optimization. Nonlinear Analysis: Real World Applications, 2011, 12, 2717-2729.	1.7	10

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37	A modified inertial three-term conjugate gradient projection method for constrained nonlinear equations with applications in compressed sensing. Numerical Algorithms, 2023, 92, 1621-1653.	1.9	10
38	A Strongly and Superlinearly Convergent SQP Algorithm for Optimization Problems with Linear Complementarity Constraints. Applied Mathematics and Optimization, 2006, 54, 17-46.	1.6	9
39	A Sequential Quadratically Constrained Quadratic Programming Method of Feasible Directions. Applied Mathematics and Optimization, 2007, 56, 343-363.	1.6	9
40	Second-order duality for non-differentiable minimax fractional programming. International Journal of Computer Mathematics, 2012, 89, 11-16.	1.8	9
41	Two modified nonlinear conjugate gradient methods with disturbance factors for unconstrained optimization. Nonlinear Dynamics, 2014, 77, 387-397.	5.2	9
42	Monotone Splitting Sequential Quadratic Optimization Algorithm with Applications in Electric Power Systems. Journal of Optimization Theory and Applications, 2020, 186, 226-247.	1.5	8
43	A new finitely convergent algorithm for systems of nonlinear inequalities. Applied Mathematics Letters, 2007, 20, 405-411.	2.7	7
44	A superlinearly convergent strongly sub-feasible SSLE-type algorithm with working set for nonlinearly constrained optimization. Journal of Computational and Applied Mathematics, 2009, 225, 172-186.	2.0	7
45	Simple Sequential Quadratically Constrained Quadratic Programming Feasible Algorithm with Active Identification Sets for Constrained Minimax Problems. Journal of Optimization Theory and Applications, 2014, 160, 158-188.	1.5	7
46	A strongly sub-feasible primal-dual quasi interior-point algorithm for nonlinear inequality constrained optimization. Applied Mathematics and Computation, 2015, 266, 560-578.	2.2	7
47	A Superlinearly Convergent SSLE Algorithm for Optimization Problems with Linear Complementarity Constraints. Journal of Global Optimization, 2005, 33, 477-510.	1.8	6
48	Semilocal E-convexity and semilocal E-convex programming. Bulletin of the Australian Mathematical Society, 2007, 75, 59-74.	0.5	6
49	A feasible QP-free algorithm combining the interior-point method with active set for constrained optimization. Computers and Mathematics With Applications, 2009, 58, 1520-1533.	2.7	6
50	Inverse problems and solution methods for a class ofÂnonlinear complementarity problems. Computational Optimization and Applications, 2011, 49, 271-297.	1.6	6
51	Strongly sub-feasible direction method for constrained optimization problems with nonsmooth objective functions. European Journal of Operational Research, 2012, 218, 28-37.	5.7	6
52	Superlinearly Convergent Norm-Relaxed SQP Method Based on Active Set Identification and New Line Search for Constrained Minimax Problems. Journal of Optimization Theory and Applications, 2014, 163, 859-883.	1.5	6
53	A New Conjugate Gradient Projection Method for Convex Constrained Nonlinear Equations. Complexity, 2020, 2020, 1-14.	1.6	6
54	Generalised monotone line search algorithm for degenerate nonlinear minimax problems. Bulletin of the Australian Mathematical Society, 2006, 73, 117-127.	0.5	5

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55	A new norm-relaxed SQP algorithm with global convergence. Applied Mathematics Letters, 2010, 23, 670-675.	2.7	5
56	A nonlinear norm-relaxed method for finely discretized semi-infinite optimization problems. Nonlinear Dynamics, 2013, 73, 85-92.	5.2	5
57	A superlinearly convergent QP-free algorithm for mathematical programs with equilibrium constraints. Applied Mathematics and Computation, 2015, 269, 885-903.	2.2	5
58	New active set identification for general constrained optimization and minimax problems. Journal of Mathematical Analysis and Applications, 2015, 421, 1405-1416.	1.0	5
59	Two-stage fully distributed approach for unit commitment with consensus ADMM. Electric Power Systems Research, 2020, 181, 106180.	3.6	5
60	A generalized super-memory gradient projection method of strongly sub-feasible directions with strong convergence for nonlinear inequality constrained optimization. Computers and Mathematics With Applications, 2007, 54, 507-524.	2.7	4
61	A superlinearly convergent SQP method without boundedness assumptions on any of the iterative sequences. Journal of Computational and Applied Mathematics, 2014, 263, 115-128.	2.0	4
62	A model-hybrid approach for unconstrained optimization problems. Numerical Algorithms, 2014, 66, 741-759.	1.9	4
63	A Feasible Point Method with Bundle Modification for Nonsmooth Convex Constrained Optimization. Acta Mathematicae Applicatae Sinica, 2018, 34, 254-273.	0.7	4
64	Two Improved Nonlinear Conjugate Gradient Methods with the Strong Wolfe Line Search. Bulletin of the Iranian Mathematical Society, 2022, 48, 2297-2319.	1.0	4
65	An SQP algorithm for mathematical programs with nonlinear complementarity constraints. Applied Mathematics and Mechanics (English Edition), 2009, 30, 659-668.	3.6	3
66	Two new predictor-corrector algorithms for second-order cone programming. Applied Mathematics and Mechanics (English Edition), 2011, 32, 521-532.	3.6	3
67	A simply sequential quadratically constrained quadratic programming method of strongly sub-feasible directions for constrained optimization. Optimization, 2013, 62, 463-482.	1.7	3
68	An Îµ-generalized gradient projection method for nonlinear minimax problems. Nonlinear Dynamics, 2014, 75, 693-700.	5.2	3
69	A sequential quadratic programming algorithm without a penalty function, a filter or a constraint qualification for inequality constrained optimization. Optimization, 2022, 71, 1603-1635.	1.7	3
70	A Globally Convergent QP-Free Algorithm for Inequality Constrained Minimax Optimization. Acta Mathematica Scientia, 2020, 40, 1723-1738.	1.0	3
71	A three-term conjugate gradient method with accelerated subspace quadratic optimization. Journal of Applied Mathematics and Computing, 0, , 1.	2.5	3
72	An ADMM-based SQP method for separably smooth nonconvex optimization. Journal of Inequalities and Applications, 2020, 2020, .	1.1	3

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73	Two classes of spectral conjugate gradient methods for unconstrained optimizations. Journal of Applied Mathematics and Computing, 2022, 68, 4435-4456.	2.5	3
74	Convergence of Bregman Peacemanâ€“Rachford Splitting Method for Nonconvex Nonseparable Optimization. Journal of the Operations Research Society of China, 2023, 11, 707-733.	1.4	3
75	Finitely convergent Îµ-generalized projection algorithm for nonlinear systems. Journal of Mathematical Analysis and Applications, 2007, 332, 1446-1459.	1.0	2
76	A new É›-generalized projection method of strongly sub-feasible directions for inequality constrained optimization. Journal of Systems Science and Complexity, 2011, 24, 604-618.	2.8	2
77	An improved strongly sub-feasible SSLE method for optimization problems and numerical experiments. Applied Mathematics and Computation, 2011, 217, 7226-7237.	2.2	2
78	A Globally and Superlinearly Convergent Primal-dual Interior Point Method for General Constrained Optimization. Numerical Mathematics, 2015, 8, 313-335.	1.3	2
79	A globally convergent QP-free algorithm for nonlinear semidefinite programming. Journal of Inequalities and Applications, 2017, 2017, 145.	1.1	2
80	A method combining norm-relaxed QCQP subproblems with active set identification for inequality constrained optimization. Optimization, 2022, 71, 1525-1555.	1.7	2
81	Convergence of Linear Bregman ADMM for Nonconvex and Nonsmooth Problems with Nonseparable Structure. Complexity, 2020, 2020, 1-14.	1.6	2
82	A Superlinearly Convergent Splitting Feasible Sequential Quadratic Optimization Method for Two-Block Large-Scale Smooth Optimization. Acta Mathematica Scientia, 2023, 43, 1-24.	1.0	2
83	Explicit and Implicit Continuation Algorithms for Strongly Monotone Variational Inequalities with Box Constraints. Journal of Global Optimization, 2004, 29, 83-25.	1.8	1
84	A new feasible descent primalâ€“dual interior point algorithm for nonlinear inequality constrained optimization. Applied Mathematical Modelling, 2010, 34, 1952-1963.	4.2	1
85	A New Nonmonotone Linesearch SQP Algorithm for Unconstrained Minimax Problem. Numerical Functional Analysis and Optimization, 2014, 35, 487-508.	1.4	1
86	A nonmonotonic hybrid algorithm for min-max problem. Optimization and Engineering, 2014, 15, 909-925.	2.4	1
87	A QP-free algorithm of quasi-strongly sub-feasible directions for inequality constrained optimization. Journal of Industrial and Management Optimization, 2015, 11, 307-328.	1.3	1
88	Primal-dual interior point QP-free algorithm for nonlinear constrained optimization. Journal of Inequalities and Applications, 2017, 2017, 239.	1.1	1
89	A norm-relaxed SQP method of strongly sub-feasible direction for finely discretized problems from semi-infinite programming. , 2011, , .		0
90	A QP-Free Algorithm for Finite Minimax Problems. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	0

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91	A new restricted memory level bundle method for constrained convex nonsmooth optimization. Optimization Letters, 0, , 1.	1.6	0