

Sandra Cristina Veiga de Oliveira Santos

List of Publications by Year in descending order

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69
papers

1,324
citations

331670

21
h-index

377865

34
g-index

71
all docs

71
docs citations

71
times ranked

585
citing authors

#	ARTICLE	IF	CITATIONS
1	A new trust region algorithm for bound constrained minimization. <i>Applied Mathematics and Optimization</i> , 1994, 30, 235-266.	1.6	109
2	A New Matrix-Free Algorithm for the Large-Scale Trust-Region Subproblem. <i>SIAM Journal on Optimization</i> , 2001, 11, 611-646.	2.0	105
3	Worst-case evaluation complexity for unconstrained nonlinear optimization using high-order regularized models. <i>Mathematical Programming</i> , 2017, 163, 359-368.	2.4	84
4	Fisher information distance: A geometrical reading. <i>Discrete Applied Mathematics</i> , 2015, 197, 59-69.	0.9	73
5	On the solution of the symmetric eigenvalue complementarity problem by the spectral projected gradient algorithm. <i>Numerical Algorithms</i> , 2008, 47, 391-407.	1.9	66
6	Solution of contact problems by FETI domain decomposition with natural coarse space projections. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 190, 1611-1627.	6.6	59
7	Augmented Lagrangians with Adaptive Precision Control for Quadratic Programming with Simple Bounds and Equality Constraints. <i>SIAM Journal on Optimization</i> , 2003, 13, 1120-1140.	2.0	55
8	On the Resolution of the Generalized Nonlinear Complementarity Problem. <i>SIAM Journal on Optimization</i> , 2002, 12, 303-321.	2.0	49
9	Duality-based domain decomposition with natural coarse-space for variational inequalities. <i>Journal of Computational and Applied Mathematics</i> , 2000, 126, 397-415.	2.0	47
10	Algorithm 873. <i>ACM Transactions on Mathematical Software</i> , 2008, 34, 1-28.	2.9	41
11	A trust-region strategy for minimization on arbitrary domains. <i>Mathematical Programming</i> , 1995, 68, 267-301.	2.4	40
12	Solving nonlinear systems of equations by means of quasi-Newton methods with a nonmonotone strategy. <i>Optimization Methods and Software</i> , 1997, 8, 25-51.	2.4	40
13	An inexact-restoration method for nonlinear bilevel programming problems. <i>Computational Optimization and Applications</i> , 2009, 43, 307-328.	1.6	31
14	Solution of linear complementarity problems using minimization with simple bounds. <i>Journal of Global Optimization</i> , 1995, 6, 253-267.	1.8	27
15	On the Resolution of Linearly Constrained Convex Minimization Problems. <i>SIAM Journal on Optimization</i> , 1994, 4, 331-339.	2.0	26
16	Title is missing!. <i>Computational Optimization and Applications</i> , 1999, 14, 37-53.	1.6	26
17	Evaluation Complexity for Nonlinear Constrained Optimization Using Unscaled KKT Conditions and High-Order Models. <i>SIAM Journal on Optimization</i> , 2016, 26, 951-967.	2.0	26
18	Augmented Lagrangian Algorithms Based on the Spectral Projected Gradient Method for Solving Nonlinear Programming Problems. <i>Journal of Optimization Theory and Applications</i> , 2004, 123, 497-517.	1.5	24

#	ARTICLE	IF	CITATIONS
19	Spectral Projected Gradient Method with Inexact Restoration for Minimization with Nonconvex Constraints. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 1628-1652.	2.8	24
20	A new strategy for solving variational inequalities in bounded polytopes. <i>Numerical Functional Analysis and Optimization</i> , 1995, 16, 653-668.	1.4	23
21	Analysis of semicoercive contact problems using symmetric BEM and augmented Lagrangians. <i>Engineering Analysis With Boundary Elements</i> , 1996, 18, 195-201.	3.7	21
22	Regularity Conditions in Differentiable Vector Optimization Revisited. <i>Journal of Optimization Theory and Applications</i> , 2009, 142, 385-398.	1.5	16
23	A brief survey of methods for solving nonlinear least-squares problems. <i>Numerical Algebra, Control and Optimization</i> , 2019, 9, 1-13.	1.6	16
24	Algebraic rules for computing the regularization parameter of the Levenberg-Marquardt method. <i>Computational Optimization and Applications</i> , 2016, 65, 723-751.	1.6	14
25	Methods to determine the internal length of nasogastric feeding tubes: An integrative review. <i>International Journal of Nursing Studies</i> , 2016, 61, 95-103.	5.6	14
26	Local Convergence Analysis of the Levenberg-Marquardt Framework for Nonzero-Residue Nonlinear Least-Squares Problems Under an Error Bound Condition. <i>Journal of Optimization Theory and Applications</i> , 2019, 183, 1099-1122.	1.5	14
27	A structured diagonal Hessian approximation method with evaluation complexity analysis for nonlinear least squares. <i>Computational and Applied Mathematics</i> , 2018, 37, 6619-6653.	1.3	13
28	On the approximate reanalysis technique in topology optimization. <i>Optimization and Engineering</i> , 2019, 20, 251-275.	2.4	12
29	A New Sequential Optimality Condition for Constrained Nonsmooth Optimization. <i>SIAM Journal on Optimization</i> , 2020, 30, 1610-1637.	2.0	12
30	Fisher information matrix and hyperbolic geometry. , 2005, , .		11
31	On Second-Order Optimality Conditions for Vector Optimization. <i>Journal of Optimization Theory and Applications</i> , 2011, 149, 332-351.	1.5	11
32	On the differentiability check in gradient sampling methods. <i>Optimization Methods and Software</i> , 2016, 31, 983-1007.	2.4	11
33	Bilevel optimization with a multiobjective problem in the lower level. <i>Numerical Algorithms</i> , 2019, 81, 915-946.	1.9	10
34	Nonmonotone Strategy for Minimization of Quadratics with Simple Constraints. <i>Applications of Mathematics</i> , 2001, 46, 321-338.	0.9	9
35	On the use of third-order models with fourth-order regularization for unconstrained optimization. <i>Optimization Letters</i> , 2020, 14, 815-838.	1.6	9
36	Numerical analysis of leaving-face parameters in bound-constrained quadratic minimization. <i>Optimization Methods and Software</i> , 2001, 15, 45-66.	2.4	8

#	ARTICLE	IF	CITATIONS
37	An inexact and nonmonotone proximal method for smooth unconstrained minimization. Journal of Computational and Applied Mathematics, 2014, 269, 86-100.	2.0	8
38	Algebraic rules for quadratic regularization of Newton's method. Computational Optimization and Applications, 2015, 60, 343-376.	1.6	8
39	On the Local Convergence Analysis of the Gradient Sampling Method for Finite Max-Functions. Journal of Optimization Theory and Applications, 2017, 175, 137-157.	1.5	8
40	Box-constrained minimization reformulations of complementarity problems in second-order cones. Journal of Global Optimization, 2008, 40, 505-527.	1.8	7
41	Local analysis of a spectral correction for the Gauss-Newton model applied to quadratic residual problems. Numerical Algorithms, 2016, 73, 407-431.	1.9	7
42	Adaptive Precision Control in Quadratic Programming with Simple Bounds and/or Equalities. Applied Optimization, 1998, , 161-173.	0.4	7
43	TRUST-REGION-BASED METHODS FOR NONLINEAR PROGRAMMING: RECENT ADVANCES AND PERSPECTIVES. Pesquisa Operacional, 2014, 34, 447-462.	0.4	6
44	A fast gradient and function sampling method for finite-max functions. Computational Optimization and Applications, 2018, 71, 673-717.	1.6	6
45	A pattern search and implicit filtering algorithm for solving linearly constrained minimization problems with noisy objective functions. Optimization Methods and Software, 2019, 34, 827-852.	2.4	6
46	New convergence results on an algorithm for norm constrained regularization and related problems. RAIRO - Operations Research, 1997, 31, 269-294.	1.8	6
47	Title is missing!. Computational Optimization and Applications, 2002, 23, 127-133.	1.6	4
48	Analysis of a New Sequential Optimality Condition Applied to Mathematical Programs with Equilibrium Constraints. Journal of Optimization Theory and Applications, 2020, 185, 433-447.	1.5	4
49	Mixed Nonlinear Complementarity Problems via Nonlinear Optimization: Numerical Results on Multi-Rigid-Body Contact Problems with Friction. International Journal for Computational Methods in Engineering Science and Mechanics, 2005, 6, 85-94.	2.1	3
50	A spectral updating for the method of moving asymptotes. Optimization Methods and Software, 2010, 25, 883-893.	2.4	3
51	On the augmented subproblems within sequential methods for nonlinear programming. Computational and Applied Mathematics, 2017, 36, 1255-1272.	1.3	3
52	Accelerating block coordinate descent methods with identification strategies. Computational Optimization and Applications, 2019, 72, 609-640.	1.6	3
53	Parallel projection methods and the resolution of ill-posed problems. Computers and Mathematics With Applications, 1994, 27, 11-24.	2.7	2
54	On the approximate solutions of augmented subproblems within sequential methods for nonlinear programming. Computational and Applied Mathematics, 2018, 37, 6601-6618.	1.3	2

#	ARTICLE	IF	CITATIONS
55	Applying the pattern search implicit filtering algorithm for solving a noisy problem of parameter identification. Computational Optimization and Applications, 2020, 76, 835-866.	1.6	2
56	On Second-Order Optimality Conditions for Vector Optimization: Addendum. Journal of Optimization Theory and Applications, 2021, 188, 597-602.	1.5	2
57	Continuous dynamic assimilation of the inner region data in hydrodynamics modelling: optimization approach. Nonlinear Processes in Geophysics, 2008, 15, 815-829.	1.3	1
58	On the Fritz John saddle point problem for differentiable multiobjective optimization. Opsearch, 2016, 53, 917-933.	1.8	1
59	Parallel Solution Of Contact Problems. , 2001, , .		1
60	On the convergence analysis of a penalty algorithm for nonsmooth optimization and its performance for solving hard-sphere problems. Numerical Algorithms, 2022, 91, 933-957.	1.9	1
61	A level-set-based topology optimization strategy using radial basis functions and a Hilbertian velocity extension. Applied Mathematical Modelling, 2022, , .	4.2	1
62	A minimax method with application to the initial vector coding problem*. International Journal of Computer Mathematics, 1997, 64, 273-284.	1.8	0
63	Preconditioning by Projectors in the Solution of Contact Problems: A Parallel Implementation. Annals of Operations Research, 2002, 117, 117-129.	4.1	0
64	Beyond domes, umbrellas and tents. Mathematical Gazette, 2010, 94, 51-61.	0.0	0
65	Newton-type interior-point methods for solving generalized complementarity problems in polyhedral cones. Optimization, 2011, 60, 1171-1191.	1.7	0
66	On the solution of linearly constrained optimization problems by means of barrier algorithms. Top, 2021, 29, 417-441.	1.6	0
67	Duality Based Domain Decomposition with Adaptive Natural Coarse Grid Projectors for Contact Problems. , 2000, , 259-270.		0
68	Métodos de regiões de confiança para resolução do problema de quadrados mínimos: implementação e testes numéricos. TeMa, 2013, 14, 69-80.	0.1	0
69	A primal nonsmooth reformulation for bilevel optimization problems. Mathematical Programming, 0, , 1.	2.4	0