

# 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	On the convergence analysis of a penalty algorithm for nonsmooth optimization and its performance for solving hard-sphere problems. <i>Numerical Algorithms</i> , 2022, 91, 933-957.	1.9	1
2	A level-set-based topology optimization strategy using radial basis functions and a Hilbertian velocity extension. <i>Applied Mathematical Modelling</i> , 2022, , .	4.2	1
3	On Second-Order Optimality Conditions for Vector Optimization: Addendum. <i>Journal of Optimization Theory and Applications</i> , 2021, 188, 597-602.	1.5	2
4	On the solution of linearly constrained optimization problems by means of barrier algorithms. <i>Top</i> , 2021, 29, 417-441.	1.6	0
5	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
6	A New Sequential Optimality Condition for Constrained Nonsmooth Optimization. <i>SIAM Journal on Optimization</i> , 2020, 30, 1610-1637.	2.0	12
7	Applying the pattern search implicit filtering algorithm for solving a noisy problem of parameter identification. <i>Computational Optimization and Applications</i> , 2020, 76, 835-866.	1.6	2
8	Analysis of a New Sequential Optimality Condition Applied to Mathematical Programs with Equilibrium Constraints. <i>Journal of Optimization Theory and Applications</i> , 2020, 185, 433-447.	1.5	4
9	Bilevel optimization with a multiobjective problem in the lower level. <i>Numerical Algorithms</i> , 2019, 81, 915-946.	1.9	10
10	A pattern search and implicit filtering algorithm for solving linearly constrained minimization problems with noisy objective functions. <i>Optimization Methods and Software</i> , 2019, 34, 827-852.	2.4	6
11	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
12	Accelerating block coordinate descent methods with identification strategies. <i>Computational Optimization and Applications</i> , 2019, 72, 609-640.	1.6	3
13	On the approximate reanalysis technique in topology optimization. <i>Optimization and Engineering</i> , 2019, 20, 251-275.	2.4	12
14	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
15	On the approximate solutions of augmented subproblems within sequential methods for nonlinear programming. <i>Computational and Applied Mathematics</i> , 2018, 37, 6601-6618.	1.3	2
16	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
17	A fast gradient and function sampling method for finite-max functions. <i>Computational Optimization and Applications</i> , 2018, 71, 673-717.	1.6	6
18	On the augmented subproblems within sequential methods for nonlinear programming. <i>Computational and Applied Mathematics</i> , 2017, 36, 1255-1272.	1.3	3

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19	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
20	Worst-case evaluation complexity for unconstrained nonlinear optimization using high-order regularized models. Mathematical Programming, 2017, 163, 359-368.	2.4	84
21	Evaluation Complexity for Nonlinear Constrained Optimization Using Unscaled KKT Conditions and High-Order Models. SIAM Journal on Optimization, 2016, 26, 951-967.	2.0	26
22	On the Fritz John saddle point problem for differentiable multiobjective optimization. Opsearch, 2016, 53, 917-933.	1.8	1
23	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
24	On the differentiability check in gradient sampling methods. Optimization Methods and Software, 2016, 31, 983-1007.	2.4	11
25	Algebraic rules for computing the regularization parameter of the Levenberg-Marquardt method. Computational Optimization and Applications, 2016, 65, 723-751.	1.6	14
26	Methods to determine the internal length of nasogastric feeding tubes: An integrative review. International Journal of Nursing Studies, 2016, 61, 95-103.	5.6	14
27	Algebraic rules for quadratic regularization of Newton's method. Computational Optimization and Applications, 2015, 60, 343-376.	1.6	8
28	Fisher information distance: A geometrical reading. Discrete Applied Mathematics, 2015, 197, 59-69.	0.9	73
29	An inexact and nonmonotone proximal method for smooth unconstrained minimization. Journal of Computational and Applied Mathematics, 2014, 269, 86-100.	2.0	8
30	TRUST-REGION-BASED METHODS FOR NONLINEAR PROGRAMMING: RECENT ADVANCES AND PERSPECTIVES. Pesquisa Operacional, 2014, 34, 447-462.	0.4	6
31	Métodos de regiões de confiança para resolução do problema de quadrados mínimos: implementação e testes numéricos. TeMa, 2013, 14, 69-80.	0.1	0
32	Newton-type interior-point methods for solving generalized complementarity problems in polyhedral cones. Optimization, 2011, 60, 1171-1191.	1.7	0
33	On Second-Order Optimality Conditions for Vector Optimization. Journal of Optimization Theory and Applications, 2011, 149, 332-351.	1.5	11
34	Beyond domes, umbrellas and tents. Mathematical Gazette, 2010, 94, 51-61.	0.0	0
35	A spectral updating for the method of moving asymptotes. Optimization Methods and Software, 2010, 25, 883-893.	2.4	3
36	Spectral Projected Gradient Method with Inexact Restoration for Minimization with Nonconvex Constraints. SIAM Journal of Scientific Computing, 2009, 31, 1628-1652.	2.8	24

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37	An inexact-restoration method for nonlinear bilevel programming problems. Computational Optimization and Applications, 2009, 43, 307-328.	1.6	31
38	Regularity Conditions in Differentiable Vector Optimization Revisited. Journal of Optimization Theory and Applications, 2009, 142, 385-398.	1.5	16
39	On the solution of the symmetric eigenvalue complementarity problem by the spectral projected gradient algorithm. Numerical Algorithms, 2008, 47, 391-407.	1.9	66
40	Box-constrained minimization reformulations of complementarity problems in second-order cones. Journal of Global Optimization, 2008, 40, 505-527.	1.8	7
41	Algorithm 873. ACM Transactions on Mathematical Software, 2008, 34, 1-28.	2.9	41
42	Continuous dynamic assimilation of the inner region data in hydrodynamics modelling: optimization approach. Nonlinear Processes in Geophysics, 2008, 15, 815-829.	1.3	1
43	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
44	Fisher information matrix and hyperbolic geometry. , 2005, , .		11
45	Augmented Lagrangian Algorithms Based on the Spectral Projected Gradient Method for Solving Nonlinear Programming Problems. Journal of Optimization Theory and Applications, 2004, 123, 497-517.	1.5	24
46	Augmented Lagrangians with Adaptive Precision Control for Quadratic Programming with Simple Bounds and Equality Constraints. SIAM Journal on Optimization, 2003, 13, 1120-1140.	2.0	55
47	On the Resolution of the Generalized Nonlinear Complementarity Problem. SIAM Journal on Optimization, 2002, 12, 303-321.	2.0	49
48	Title is missing!. Computational Optimization and Applications, 2002, 23, 127-133.	1.6	4
49	Preconditioning by Projectors in the Solution of Contact Problems: A Parallel Implementation. Annals of Operations Research, 2002, 117, 117-129.	4.1	0
50	A New Matrix-Free Algorithm for the Large-Scale Trust-Region Subproblem. SIAM Journal on Optimization, 2001, 11, 611-646.	2.0	105
51	Nonmonotone Strategy for Minimization of Quadratics with Simple Constraints. Applications of Mathematics, 2001, 46, 321-338.	0.9	9
52	Numerical analysis of leaving-face parameters in bound-constrained quadratic minimization. Optimization Methods and Software, 2001, 15, 45-66.	2.4	8
53	Parallel Solution Of Contact Problems. , 2001, , .		1
54	Solution of contact problems by FETI domain decomposition with natural coarse space projections. Computer Methods in Applied Mechanics and Engineering, 2000, 190, 1611-1627.	6.6	59

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55	Duality-based domain decomposition with natural coarse-space for variational inequalities. Journal of Computational and Applied Mathematics, 2000, 126, 397-415.	2.0	47
56	Duality Based Domain Decomposition with Adaptive Natural Coarse Grid Projectors for Contact Problems. , 2000, , 259-270.		0
57	Title is missing!. Computational Optimization and Applications, 1999, 14, 37-53.	1.6	26
58	Adaptive Precision Control in Quadratic Programming with Simple Bounds and/or Equalities. Applied Optimization, 1998, , 161-173.	0.4	7
59	Solving nonlinear systems of equations by means of quasi-Newton methods with a nonmonotone strategy. Optimization Methods and Software, 1997, 8, 25-51.	2.4	40
60	A minimax method with application to the initial vector coding problem*. International Journal of Computer Mathematics, 1997, 64, 273-284.	1.8	0
61	New convergence results on an algorithm for norm constrained regularization and related problems. RAIRO - Operations Research, 1997, 31, 269-294.	1.8	6
62	Analysis of semicoercive contact problems using symmetric BEM and augmented Lagrangians. Engineering Analysis With Boundary Elements, 1996, 18, 195-201.	3.7	21
63	A trust-region strategy for minimization on arbitrary domains. Mathematical Programming, 1995, 68, 267-301.	2.4	40
64	Solution of linear complementarity problems using minimization with simple bounds. Journal of Global Optimization, 1995, 6, 253-267.	1.8	27
65	A new strategy for solving variational inequalities in bounded polytopes. Numerical Functional Analysis and Optimization, 1995, 16, 653-668.	1.4	23
66	Parallel projection methods and the resolution of ill-posed problems. Computers and Mathematics With Applications, 1994, 27, 11-24.	2.7	2
67	A new trust region algorithm for bound constrained minimization. Applied Mathematics and Optimization, 1994, 30, 235-266.	1.6	109
68	On the Resolution of Linearly Constrained Convex Minimization Problems. SIAM Journal on Optimization, 1994, 4, 331-339.	2.0	26
69	A primal nonsmooth reformulation for bilevel optimization problems. Mathematical Programming, 0, , 1.	2.4	0