

Benar F Svaiter

List of Publications by Year in descending order

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docs citations

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times ranked

2225
citing authors

#	ARTICLE	IF	CITATIONS
1	A partially inexact ADMM with $\mathcal{O}(1/n)$ asymptotic convergence rate, $\mathcal{O}(1/n)$ complexity, and immediate relative error tolerance. Optimization, 2021, 70, 2061-2080.	1.0	1
2	A simplified proof of weak convergence in Douglas-Rachford method. Operations Research Letters, 2019, 47, 291-293.	0.5	1
3	A Further Study on Asymptotic Functions via Variational Analysis. Journal of Optimization Theory and Applications, 2019, 182, 366-382.	0.8	3
4	Iteration-complexity of a Rockafellar's proximal method of multipliers for convex programming based on second-order approximations. Optimization, 2019, 68, 1521-1550.	1.0	1
5	A weakly convergent fully inexact Douglas-Rachford method with relative error tolerance. ESAIM - Control, Optimisation and Calculus of Variations, 2019, 25, 57.	0.7	1
6	Diffusion methods for classification with pairwise relationships. Quarterly of Applied Mathematics, 2019, 77, 793-810.	0.5	1
7	A $\mathcal{O}(1/k^{3/2})$ $\mathcal{O}(1/k^{3/2})$ hybrid proximal extragradient primal-dual interior point method for nonlinear monotone mixed complementarity problems. Computational and Applied Mathematics, 2018, 37, 1847-1876.	1.3	13
8	A proximal-Newton method for unconstrained convex optimization in Hilbert spaces. Optimization, 2018, 67, 67-82.	1.0	3
9	On a Family of Gradient-Type Projection Methods for Nonlinear Ill-Posed Problems. Numerical Functional Analysis and Optimization, 2018, 39, 1153-1180.	0.6	2
10	The multiobjective steepest descent direction is not Lipschitz continuous, but is Hölder continuous. Operations Research Letters, 2018, 46, 430-433.	0.5	4
11	The distributional zeta-function in disordered field theory. International Journal of Modern Physics A, 2016, 31, 1650144.	0.5	12
12	Regularized HPE-Type Methods for Solving Monotone Inclusions with Improved Pointwise Iteration-Complexity Bounds. SIAM Journal on Optimization, 2016, 26, 2730-2743.	1.2	11
13	Algebraic rules for computing the regularization parameter of the Levenberg-Marquardt method. Computational Optimization and Applications, 2016, 65, 723-751.	0.9	14
14	On projective Landweber-Kaczmarz methods for solving systems of nonlinear ill-posed equations. Inverse Problems, 2016, 32, 025004.	1.0	17
15	A note on Fejér-monotone sequences in product spaces and its applications to the dual convergence of augmented Lagrangian methods. Mathematical Programming, 2016, 155, 613-616.	1.6	4
16	An adaptive accelerated first-order method for convex optimization. Computational Optimization and Applications, 2016, 64, 31-73.	0.9	22
17	A Variant of the Hybrid Proximal Extragradient Method for Solving Strongly Monotone Inclusions and its Complexity Analysis. Journal of Optimization Theory and Applications, 2016, 168, 198-215.	0.8	0
18	Algebraic rules for quadratic regularization of Newton's method. Computational Optimization and Applications, 2015, 60, 343-376.	0.9	8

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19	A Hybrid Proximal Extragradient Self-Concordant Primal Barrier Method for Monotone Variational Inequalities. <i>SIAM Journal on Optimization</i> , 2015, 25, 1965-1996.	1.2	4
20	Order preserving and order reversing operators on the class of convex functions in Banach spaces. <i>Journal of Functional Analysis</i> , 2015, 268, 73-92.	0.7	8
21	Interior hybrid proximal extragradient methods for the linear monotone complementarity problem. <i>Optimization</i> , 2015, 64, 1957-1982.	1.0	2
22	A quadratically convergent Newton method for vector optimization. <i>Optimization</i> , 2014, 63, 661-677.	1.0	28
23	A first-order block-decomposition method for solving two-easy-block structured semidefinite programs. <i>Mathematical Programming Computation</i> , 2014, 6, 103-150.	3.2	13
24	A Class of Fejér Convergent Algorithms, Approximate Resolvents and the Hybrid Proximal-Extragradient Method. <i>Journal of Optimization Theory and Applications</i> , 2014, 162, 133-153.	0.8	13
25	Newton-Like Dynamics and Forward-Backward Methods for Structured Monotone Inclusions in Hilbert Spaces. <i>Journal of Optimization Theory and Applications</i> , 2014, 161, 331-360.	0.8	63
26	On the behaviour of constrained optimization methods when Lagrange multipliers do not exist. <i>Optimization Methods and Software</i> , 2014, 29, 646-657.	1.6	8
27	Implementation of a block-decomposition algorithm for solving large-scale conic semidefinite programming problems. <i>Computational Optimization and Applications</i> , 2014, 57, 45-69.	0.9	13
28	An Accelerated Hybrid Proximal Extragradient Method for Convex Optimization and Its Implications to Second-Order Methods. <i>SIAM Journal on Optimization</i> , 2013, 23, 1092-1125.	1.2	68
29	A non-type (D) operator in \mathbb{C}_0 . <i>Mathematical Programming</i> , 2013, 139, 81-88.	1.6	2
30	Iteration-Complexity of Block-Decomposition Algorithms and the Alternating Direction Method of Multipliers. <i>SIAM Journal on Optimization</i> , 2013, 23, 475-507.	1.2	133
31	Optimal auctions with multidimensional types and the desirability of exclusion. <i>Journal of Mathematical Economics</i> , 2013, 49, 106-110.	0.4	0
32	Convergence of descent methods for semi-algebraic and tame problems: proximal algorithms, forward-backward splitting, and regularized Gauss-Seidel methods. <i>Mathematical Programming</i> , 2013, 137, 91-129.	1.6	794
33	Global Convergence of a Closed-Loop Regularized Newton Method for Solving Monotone Inclusions in Hilbert Spaces. <i>Journal of Optimization Theory and Applications</i> , 2013, 157, 624-650.	0.8	15
34	On the variation of maximal operators of convolution type. <i>Journal of Functional Analysis</i> , 2013, 265, 837-865.	0.7	60
35	RIEMANN ZETA ZEROS AND PRIME NUMBER SPECTRA IN QUANTUM FIELD THEORY. <i>International Journal of Modern Physics A</i> , 2013, 28, 1350128.	0.5	10
36	Iteration-Complexity of a Newton Proximal Extragradient Method for Monotone Variational Inequalities and Inclusion Problems. <i>SIAM Journal on Optimization</i> , 2012, 22, 914-935.	1.2	23

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37	A Markovian Growth Dynamics on Rooted Binary Trees Evolving According to the Gompertz Curve. <i>Journal of Statistical Physics</i> , 2012, 148, 565-578.	0.5	1
38	A robust Kantorovich's theorem on the inexact Newton method with relative residual error tolerance. <i>Journal of Complexity</i> , 2012, 28, 346-363.	0.7	11
39	On Diagonal Subdifferential Operators in Nonreflexive Banach Spaces. <i>Set-Valued and Variational Analysis</i> , 2012, 20, 1-14.	0.5	12
40	On Weak Convergence of the Douglas-Rachford Method. <i>SIAM Journal on Control and Optimization</i> , 2011, 49, 280-287.	1.1	96
41	Complexity of Variants of Tseng's Modified F-B Splitting and Korpelevich's Methods for Hemivariational Inequalities with Applications to Saddle-point and Convex Optimization Problems. <i>SIAM Journal on Optimization</i> , 2011, 21, 1688-1720.	1.2	68
42	A new duality theory for mathematical programming. <i>Optimization</i> , 2011, 60, 1209-1231.	1.0	5
43	A Continuous Dynamical Newton-Like Approach to Solving Monotone Inclusions. <i>SIAM Journal on Control and Optimization</i> , 2011, 49, 574-598.	1.1	61
44	Weber-Fechner Law and the Optimality of the Logarithmic Scale. <i>Minds and Machines</i> , 2011, 21, 73-81.	2.7	44
45	Moreau's Yosida Regularization of Maximal Monotone Operators of Type (D). <i>Set-Valued and Variational Analysis</i> , 2011, 19, 97-106.	0.5	2
46	Addressing the greediness phenomenon in Nonlinear Programming by means of Proximal Augmented Lagrangians. <i>Computational Optimization and Applications</i> , 2010, 46, 229-245.	0.9	8
47	Optimal auction with a general distribution: Virtual valuation without densities. <i>Journal of Mathematical Economics</i> , 2010, 46, 21-31.	0.4	17
48	A New Sequential Optimality Condition for Constrained Optimization and Algorithmic Consequences. <i>SIAM Journal on Optimization</i> , 2010, 20, 3533-3554.	1.2	70
49	On the Complexity of the Hybrid Proximal Extragradient Method for the Iterates and the Ergodic Mean. <i>SIAM Journal on Optimization</i> , 2010, 20, 2755-2787.	1.2	91
50	Kantorovich's majorants principle for Newton's method. <i>Computational Optimization and Applications</i> , 2009, 42, 213-229.	0.9	50
51	Analytic center of spherical shells and its application to analytic center machine. <i>Computational Optimization and Applications</i> , 2009, 43, 329-352.	0.9	1
52	Newton's Method for Multiobjective Optimization. <i>SIAM Journal on Optimization</i> , 2009, 20, 602-626.	1.2	242
53	General Projective Splitting Methods for Sums of Maximal Monotone Operators. <i>SIAM Journal on Control and Optimization</i> , 2009, 48, 787-811.	1.1	65
54	Gradient descent and fast artificial time integration. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009, 43, 689-708.	0.8	22

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55	Minimal convex functions bounded below by the duality product. Proceedings of the American Mathematical Society, 2008, 136, 873-878.	0.4	14
56	New Condition Characterizing the Solutions of Variational Inequality Problems. Journal of Optimization Theory and Applications, 2008, 137, 89-98.	0.8	2
57	A computational model for telomere-dependent cell-replicative aging. BioSystems, 2008, 91, 262-267.	0.9	19
58	Hölder continuity of the policy function approximation in the value function approximation. Journal of Mathematical Economics, 2007, 43, 629-639.	0.4	6
59	A family of projective splitting methods for the sum of two maximal monotone operators. Mathematical Programming, 2007, 111, 173-199.	1.6	52
60	On the choice of parameters for the weighting method in vector optimization. Mathematical Programming, 2007, 111, 201-216.	1.6	28
61	A steepest descent method for vector optimization. Journal of Computational and Applied Mathematics, 2005, 175, 395-414.	1.1	146
62	Monotone Operators Representable by l.s.c. Convex Functions. Set-Valued and Variational Analysis, 2005, 13, 21-46.	0.5	66
63	An Outer Approximation Method for the Variational Inequality Problem. SIAM Journal on Control and Optimization, 2005, 43, 2071-2088.	1.1	43
64	Proximal Methods in Vector Optimization. SIAM Journal on Optimization, 2005, 15, 953-970.	1.2	128
65	Some Inexact Hybrid Proximal Augmented Lagrangian Algorithms. Numerical Algorithms, 2004, 35, 175-184.	1.1	2
66	A strongly convergent hybrid proximal method in Banach spaces. Journal of Mathematical Analysis and Applications, 2004, 289, 700-711.	0.5	12
67	A Practical Optimality Condition Without Constraint Qualifications for Nonlinear Programming. Journal of Optimization Theory and Applications, 2003, 118, 117-133.	0.8	52
68	Solving monotone inclusions with linear multi-step methods. Mathematical Programming, 2003, 96, 469-487.	1.6	3
69	On First Order Optimality Conditions for Vector Optimization. Acta Mathematicae Applicatae Sinica, 2003, 19, 371-386.	0.4	9
70	Inexact Variants of the Proximal Point Algorithm without Monotonicity. SIAM Journal on Optimization, 2003, 13, 1080-1097.	1.2	57
71	Fixed points in the family of convex representations of a maximal monotone operator. Proceedings of the American Mathematical Society, 2003, 131, 3851-3859.	0.4	20
72	Maximal monotonicity, conjugation and the duality product. Proceedings of the American Mathematical Society, 2003, 131, 2379-2383.	0.4	58

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73	GROUP-THEORETIC APPROACH FOR SYMBOLIC TENSOR MANIPULATION. International Journal of Modern Physics C, 2002, 13, 859-879.	0.8	20
74	A new proximal-based globalization strategy for the Josephson-Newton method for variational inequalities. Optimization Methods and Software, 2002, 17, 965-983.	1.6	7
75	Kantorovich's Theorem on Newton's Method in Riemannian Manifolds. Journal of Complexity, 2002, 18, 304-329.	0.7	93
76	Relaxed Steepest Descent and Cauchy-Barzilai-Borwein Method. Computational Optimization and Applications, 2002, 21, 155-167.	0.9	128
77	Maximal Monotone Operators, Convex Functions and a Special Family of Enlargements. Set-Valued and Variational Analysis, 2002, 10, 297-316.	0.5	72
78	A UNIFIED FRAMEWORK FOR SOME INEXACT PROXIMAL POINT ALGORITHMS*. Numerical Functional Analysis and Optimization, 2001, 22, 1013-1035.	0.6	107
79	On the need for hybrid steps in hybrid proximal point methods. Operations Research Letters, 2001, 29, 217-220.	0.5	9
80	Robustness of the Hybrid Extragradient Proximal-Point Algorithm. Journal of Optimization Theory and Applications, 2001, 111, 117-136.	0.8	12
81	A Relative Error Tolerance for a Family of Generalized Proximal Point Methods. Mathematics of Operations Research, 2001, 26, 816-831.	0.8	30
82	Convexity for the diffuse tomography model. Inverse Problems, 2001, 17, 729-738.	1.0	1
83	On the regularization of mixed complementarity problems. Numerical Functional Analysis and Optimization, 2000, 21, 589-600.	0.6	1
84	A Family of Enlargements of Maximal Monotone Operators. Set-Valued and Variational Analysis, 2000, 8, 311-328.	0.5	27
85	Steepest descent methods for multicriteria optimization. Mathematical Methods of Operations Research, 2000, 51, 479-494.	0.4	393
86	Error bounds for proximal point subproblems and associated inexact proximal point algorithms. Mathematical Programming, 2000, 88, 371-389.	1.6	83
87	Forcing strong convergence of proximal point iterations in a Hilbert space. Mathematical Programming, 2000, 87, 189-202.	1.6	265
88	An Inexact Hybrid Generalized Proximal Point Algorithm and Some New Results on the Theory of Bregman Functions. Mathematics of Operations Research, 2000, 25, 214-230.	0.8	139
89	A Truly Globally Convergent Newton-Type Method for the Monotone Nonlinear Complementarity Problem. SIAM Journal on Optimization, 2000, 10, 605-625.	1.2	44
90	A Comparison of Rates of Convergence of Two Inexact Proximal Point Algorithms. Applied Optimization, 2000, , 415-427.	0.4	9

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91	On Well Definedness of the Central Path. Journal of Optimization Theory and Applications, 1999, 102, 223-237.	0.8	12
92	$\hat{\mu}$ -Enlargements of Maximal Monotone Operators in Banach Spaces. , 1999, 7, 117-132.		56
93	Title is missing!. Set-Valued and Variational Analysis, 1999, 7, 323-345.	0.5	168
94	A New Projection Method for Variational Inequality Problems. SIAM Journal on Control and Optimization, 1999, 37, 765-776.	1.1	397
95	Central Paths, Generalized Proximal Point Methods, and Cauchy Trajectories in Riemannian Manifolds. SIAM Journal on Control and Optimization, 1999, 37, 566-588.	1.1	27
96	Analytic regularization of the Yukawa model at finite temperature. Journal of Mathematical Physics, 1997, 38, 2210-2218.	0.5	4
97	Enlargement of Monotone Operators with Applications to Variational Inequalities. Set-Valued and Variational Analysis, 1997, 5, 159-180.	0.5	134
98	Descent methods with linesearch in the presence of perturbations. Journal of Computational and Applied Mathematics, 1997, 80, 265-275.	1.1	4
99	Multiplicative Interior Gradient Methods for Minimization over the Nonnegative Orthant. SIAM Journal on Control and Optimization, 1996, 34, 389-406.	1.1	7
100	The cost of computing integers. Proceedings of the American Mathematical Society, 1996, 124, 1377-1378.	0.4	14
101	Primal-dual row-action method for convex programming. Journal of Optimization Theory and Applications, 1995, 86, 73-112.	0.8	7
102	IS THE MILNE COORDINATE SYSTEM A GOOD ONE?. Modern Physics Letters A, 1994, 09, 19-27.	0.5	3
103	Entropy-Like Proximal Methods in Convex Programming. Mathematics of Operations Research, 1994, 19, 790-814.	0.8	114
104	Quantum processes: stimulated and spontaneous emission near cosmic strings. Classical and Quantum Gravity, 1994, 11, 347-358.	1.5	15
105	A row-action method for convex programming. Mathematical Programming, 1994, 64, 149-171.	1.6	16
106	A new smoothing-regularization approach for a maximum-likelihood estimation problem. Applied Mathematics and Optimization, 1994, 29, 225-241.	0.8	10
107	The stress tensor conformal anomaly and analytic regularizations. Journal of Mathematical Physics, 1994, 35, 1840-1849.	0.5	10
108	Zero point energy and analytic regularizations. Physical Review D, 1993, 47, 4581-4585.	1.6	26

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109	The analytic regularization zeta function method and the cut-off method in the Casimir effect. Journal of Physics A, 1992, 25, 979-989.	1.6	45
110	Inertial and noninertial particle detectors and vacuum fluctuations. Physical Review D, 1992, 46, 5267-5277.	1.6	68
111	Attractive or repulsive nature of Casimir force in D-dimensional Minkowski spacetime. Physical Review D, 1991, 43, 1300-1306.	1.6	70
112	A new Kontorowich-Lebedev-like transformation. Journal of Physics A, 1991, 24, 3199-3203.	1.6	0
113	ON THE SCALAR CASIMIR ENERGIES IN SPACE-TIMES WITH $M_d \tilde{A} - T_Q$ STRUCTURE. Modern Physics Letters A, 1991, 06, 1855-1861.	0.5	1
114	Casimir effect in a D-dimensional flat spacetime and the cut-off method. Journal of Mathematical Physics, 1991, 32, 175-180.	0.5	52