

Benar F Svaiter

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113
papers

4,420
citations

37
h-index

65
g-index

116
ext. papers

4,974
ext. citations

1.7
avg, IF

5.88
L-index

#	Paper	IF	Citations
113	Convergence of descent methods for semi-algebraic and tame problems: proximal algorithms, forwardBackward splitting, and regularized GaussSeidel methods. <i>Mathematical Programming</i> , 2013 , 137, 91-129	2.1	541
112	A New Projection Method for Variational Inequality Problems. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 765-776	1.9	328
111	Steepest descent methods for multicriteria optimization. <i>Mathematical Methods of Operations Research</i> , 2000 , 51, 479-494	1	292
110	Forcing strong convergence of proximal point iterations in a Hilbert space. <i>Mathematical Programming</i> , 2000 , 87, 189-202	2.1	219
109	Newton's Method for Multiobjective Optimization. <i>SIAM Journal on Optimization</i> , 2009 , 20, 602-626	2	172
108	A Hybrid Approximate Extragradient Proximal Point Algorithm Using the Enlargement of a Maximal Monotone Operator. <i>Set-Valued and Variational Analysis</i> , 1999 , 7, 323-345		141
107	An Inexact Hybrid Generalized Proximal Point Algorithm and Some New Results on the Theory of Bregman Functions. <i>Mathematics of Operations Research</i> , 2000 , 25, 214-230	1.5	119
106	Iteration-Complexity of Block-Decomposition Algorithms and the Alternating Direction Method of Multipliers. <i>SIAM Journal on Optimization</i> , 2013 , 23, 475-507	2	114
105	Enlargement of Monotone Operators with Applications to Variational Inequalities. <i>Set-Valued and Variational Analysis</i> , 1997 , 5, 159-180		113
104	A steepest descent method for vector optimization. <i>Journal of Computational and Applied Mathematics</i> , 2005 , 175, 395-414	2.4	112
103	Proximal Methods in Vector Optimization. <i>SIAM Journal on Optimization</i> , 2005 , 15, 953-970	2	102
102	Entropy-Like Proximal Methods in Convex Programming. <i>Mathematics of Operations Research</i> , 1994 , 19, 790-814	1.5	102
101	A UNIFIED FRAMEWORK FOR SOME INEXACT PROXIMAL POINT ALGORITHMS*. <i>Numerical Functional Analysis and Optimization</i> , 2001 , 22, 1013-1035	1	96
100	Relaxed Steepest Descent and Cauchy-Barzilai-Borwein Method. <i>Computational Optimization and Applications</i> , 2002 , 21, 155-167	1.4	88
99	On Weak Convergence of the DouglasBachford Method. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 280-287	1.9	79
98	Kantorovich's Theorem on Newton's Method in Riemannian Manifolds. <i>Journal of Complexity</i> , 2002 , 18, 304-329	1.2	74
97	Error bounds for proximal point subproblems and associated inexact proximal point algorithms. <i>Mathematical Programming</i> , 2000 , 88, 371-389	2.1	68

96	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	2	67
95	Maximal Monotone Operators, Convex Functions and a Special Family of Enlargements. <i>Set-Valued and Variational Analysis</i> , 2002 , 10, 297-316		65
94	Monotone Operators Representable by l.s.c. Convex Functions. <i>Set-Valued and Variational Analysis</i> , 2005 , 13, 21-46		57
93	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	2	55
92	A New Sequential Optimality Condition for Constrained Optimization and Algorithmic Consequences. <i>SIAM Journal on Optimization</i> , 2010 , 20, 3533-3554	2	55
91	Inertial and noninertial particle detectors and vacuum fluctuations. <i>Physical Review D</i> , 1992 , 46, 5267-5277		55
90	General Projective Splitting Methods for Sums of Maximal Monotone Operators. <i>SIAM Journal on Control and Optimization</i> , 2009 , 48, 787-811	1.9	52
89	Maximal monotonicity, conjugation and the duality product. <i>Proceedings of the American Mathematical Society</i> , 2003 , 131, 2379-2383	0.8	49
88	Inexact Variants of the Proximal Point Algorithm without Monotonicity. <i>SIAM Journal on Optimization</i> , 2003 , 13, 1080-1097	2	48
87	Casimir effect in a D-dimensional flat space-time and the cut-off method. <i>Journal of Mathematical Physics</i> , 1991 , 32, 175-180	1.2	48
86	A Practical Optimality Condition Without Constraint Qualifications for Nonlinear Programming. <i>Journal of Optimization Theory and Applications</i> , 2003 , 118, 117-133	1.6	46
85	Enlargements of Maximal Monotone Operators in Banach Spaces 1999 , 7, 117-132		46
84	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	1.6	44
83	A Continuous Dynamical Newton-Like Approach to Solving Monotone Inclusions. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 574-598	1.9	44
82	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	2	43
81	Kantorovich's majorants principle for Newton's method. <i>Computational Optimization and Applications</i> , 2009 , 42, 213-229	1.4	42
80	A family of projective splitting methods for the sum of two maximal monotone operators. <i>Mathematical Programming</i> , 2007 , 111, 173-199	2.1	42
79	The analytic regularization zeta function method and the cut-off method in the Casimir effect. <i>Journal of Physics A</i> , 1992 , 25, 979-989		38

78	Attractive or repulsive nature of Casimir force in D-dimensional Minkowski spacetime. <i>Physical Review D</i> , 1991 , 43, 1300-1306	4.9	38
77	An Outer Approximation Method for the Variational Inequality Problem. <i>SIAM Journal on Control and Optimization</i> , 2005 , 43, 2071-2088	1.9	37
76	On the variation of maximal operators of convolution type. <i>Journal of Functional Analysis</i> , 2013 , 265, 837-865	1.4	33
75	A Truly Globally Convergent Newton-Type Method for the Monotone Nonlinear Complementarity Problem. <i>SIAM Journal on Optimization</i> , 2000 , 10, 605-625	2	32
74	Weber-Fechner Law and the Optimality of the Logarithmic Scale. <i>Minds and Machines</i> , 2011 , 21, 73-81	4.9	29
73	A Relative Error Tolerance for a Family of Generalized Proximal Point Methods. <i>Mathematics of Operations Research</i> , 2001 , 26, 816-831	1.5	28
72	On the choice of parameters for the weighting method in vector optimization. <i>Mathematical Programming</i> , 2007 , 111, 201-216	2.1	24
71	A Family of Enlargements of Maximal Monotone Operators. <i>Set-Valued and Variational Analysis</i> , 2000 , 8, 311-328		24
70	Central Paths, Generalized Proximal Point Methods, and Cauchy Trajectories in Riemannian Manifolds. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 566-588	1.9	22
69	Zero point energy and analytic regularizations. <i>Physical Review D</i> , 1993 , 47, 4581-4585	4.9	21
68	GROUP-THEORETIC APPROACH FOR SYMBOLIC TENSOR MANIPULATION. <i>International Journal of Modern Physics C</i> , 2002 , 13, 859-879	1.1	20
67	A quadratically convergent Newton method for vector optimization. <i>Optimization</i> , 2014 , 63, 661-677	1.2	18
66	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	2	18
65	A computational model for telomere-dependent cell-replicative aging. <i>BioSystems</i> , 2008 , 91, 262-7	1.9	18
64	Fixed points in the family of convex representations of a maximal monotone operator. <i>Proceedings of the American Mathematical Society</i> , 2003 , 131, 3851-3859	0.8	18
63	Gradient descent and fast artificial time integration. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009 , 43, 689-708	1.8	16
62	An adaptive accelerated first-order method for convex optimization. <i>Computational Optimization and Applications</i> , 2016 , 64, 31-73	1.4	15
61	A first-order block-decomposition method for solving two-easy-block structured semidefinite programs. <i>Mathematical Programming Computation</i> , 2014 , 6, 103-150	7.8	13

60	Minimal convex functions bounded below by the duality product. <i>Proceedings of the American Mathematical Society</i> , 2007 , 136, 873-879	0.8	13
59	Quantum processes: stimulated and spontaneous emission near cosmic strings. <i>Classical and Quantum Gravity</i> , 1994 , 11, 347-358	3.3	13
58	On projective Landweber-Kaczmarz methods for solving systems of nonlinear ill-posed equations. <i>Inverse Problems</i> , 2016 , 32, 025004	2.3	12
57	Implementation of a block-decomposition algorithm for solving large-scale conic semidefinite programming problems. <i>Computational Optimization and Applications</i> , 2014 , 57, 45-69	1.4	12
56	On Diagonal Subdifferential Operators in Nonreflexive Banach Spaces. <i>Set-Valued and Variational Analysis</i> , 2012 , 20, 1-14	1	12
55	A strongly convergent hybrid proximal method in Banach spaces. <i>Journal of Mathematical Analysis and Applications</i> , 2004 , 289, 700-711	1.1	12
54	Robustness of the Hybrid Extragradient Proximal-Point Algorithm. <i>Journal of Optimization Theory and Applications</i> , 2001 , 111, 117-136	1.6	12
53	On Well Definedness of the Central Path. <i>Journal of Optimization Theory and Applications</i> , 1999 , 102, 223-237	1.6	12
52	A row-action method for convex programming. <i>Mathematical Programming</i> , 1994 , 64, 149-171	2.1	11
51	A robust Kantorovich theorem on the inexact Newton method with relative residual error tolerance. <i>Journal of Complexity</i> , 2012 , 28, 346-363	1.2	10
50	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	1.6	10
49	A $\mathcal{O}(1/k^{3/2})$ hybrid proximal extragradient primal-dual interior point method for nonlinear monotone mixed complementarity problems. <i>Computational and Applied Mathematics</i> , 2018 , 37, 1847-1876		9
48	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	1.6	9
47	On First Order Optimality Conditions for Vector Optimization. <i>Acta Mathematicae Applicatae Sinica</i> , 2003 , 19, 371-386	0.3	9
46	On the need for hybrid steps in hybrid proximal point methods. <i>Operations Research Letters</i> , 2001 , 29, 217-220	1	9
45	A new smoothing-regularization approach for a maximum-likelihood estimation problem. <i>Applied Mathematics and Optimization</i> , 1994 , 29, 225-241	1.5	9
44	Regularized HPE-Type Methods for Solving Monotone Inclusions with Improved Pointwise Iteration-Complexity Bounds. <i>SIAM Journal on Optimization</i> , 2016 , 26, 2730-2743	2	9
43	Algebraic rules for computing the regularization parameter of the Levenberg-Marquardt method. <i>Computational Optimization and Applications</i> , 2016 , 65, 723-751	1.4	9

42	RIEMANN ZETA ZEROS AND PRIME NUMBER SPECTRA IN QUANTUM FIELD THEORY. <i>International Journal of Modern Physics A</i> , 2013 , 28, 1350128	1.2	8
41	Addressing the greediness phenomenon in Nonlinear Programming by means of Proximal Augmented Lagrangians. <i>Computational Optimization and Applications</i> , 2010 , 46, 229-245	1.4	8
40	The stress tensor conformal anomaly and analytic regularizations. <i>Journal of Mathematical Physics</i> , 1994 , 35, 1840-1849	1.2	8
39	The cost of computing integers. <i>Proceedings of the American Mathematical Society</i> , 1996 , 124, 1377-1378	0.8	8
38	The distributional zeta-function in disordered field theory. <i>International Journal of Modern Physics A</i> , 2016 , 31, 1650144	1.2	8
37	On the behaviour of constrained optimization methods when Lagrange multipliers do not exist. <i>Optimization Methods and Software</i> , 2014 , 29, 646-657	1.3	7
36	Algebraic rules for quadratic regularization of Newton's method. <i>Computational Optimization and Applications</i> , 2015 , 60, 343-376	1.4	7
35	Optimal auction with a general distribution: Virtual valuation without densities. <i>Journal of Mathematical Economics</i> , 2010 , 46, 21-31	0.6	7
34	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	1.4	6
33	A new proximal-based globalization strategy for the Josephy-Newton method for variational inequalities. <i>Optimization Methods and Software</i> , 2002 , 17, 965-983	1.3	6
32	Hölder continuity of the policy function approximation in the value function approximation. <i>Journal of Mathematical Economics</i> , 2007 , 43, 629-639	0.6	5
31	Multiplicative Interior Gradient Methods for Minimization over the Nonnegative Orthant. <i>SIAM Journal on Control and Optimization</i> , 1996 , 34, 389-406	1.9	5
30	A Comparison of Rates of Convergence of Two Inexact Proximal Point Algorithms. <i>Applied Optimization</i> , 2000 , 415-427		5
29	A Hybrid Proximal Extragradient Self-Concordant Primal Barrier Method for Monotone Variational Inequalities. <i>SIAM Journal on Optimization</i> , 2015 , 25, 1965-1996	2	4
28	A new duality theory for mathematical programming. <i>Optimization</i> , 2011 , 60, 1209-1231	1.2	4
27	Descent methods with linesearch in the presence of perturbations. <i>Journal of Computational and Applied Mathematics</i> , 1997 , 80, 265-275	2.4	4
26	Primal-dual row-action method for convex programming. <i>Journal of Optimization Theory and Applications</i> , 1995 , 86, 73-112	1.6	4
25	A proximal-Newton method for unconstrained convex optimization in Hilbert spaces. <i>Optimization</i> , 2018 , 67, 67-82	1.2	3

24	A note on Fej̄r-monotone sequences in product spaces and its applications to the dual convergence of augmented Lagrangian methods. <i>Mathematical Programming</i> , 2016 , 155, 613-616	2.1	3
23	Analytic regularization of the Yukawa model at finite temperature. <i>Journal of Mathematical Physics</i> , 1997 , 38, 2210-2218	1.2	3
22	A Further Study on Asymptotic Functions via Variational Analysis. <i>Journal of Optimization Theory and Applications</i> , 2019 , 182, 366-382	1.6	2
21	Interior hybrid proximal extragradient methods for the linear monotone complementarity problem. <i>Optimization</i> , 2015 , 64, 1957-1982	1.2	2
20	New Condition Characterizing the Solutions of Variational Inequality Problems. <i>Journal of Optimization Theory and Applications</i> , 2008 , 137, 89-98	1.6	2
19	Some Inexact Hybrid Proximal Augmented Lagrangian Algorithms. <i>Numerical Algorithms</i> , 2004 , 35, 175-184		2
18	Solving monotone inclusions with linear multi-step methods. <i>Mathematical Programming</i> , 2003 , 96, 469-487		2
17	Iteration-complexity of a Rockafellar's proximal method of multipliers for convex programming based on second-order approximations. <i>Optimization</i> , 2019 , 68, 1521-1550	1.2	1
16	A Markovian Growth Dynamics on Rooted Binary Trees Evolving According to the Gompertz Curve. <i>Journal of Statistical Physics</i> , 2012 , 148, 565-578	1.5	1
15	Moreau's Regularization of Maximal Monotone Operators of Type (D). <i>Set-Valued and Variational Analysis</i> , 2011 , 19, 97-106	1	1
14	Analytic center of spherical shells and its application to analytic center machine. <i>Computational Optimization and Applications</i> , 2009 , 43, 329-352	1.4	1
13	Convexity for the diffuse tomography model. <i>Inverse Problems</i> , 2001 , 17, 729-738	2.3	1
12	On the regularization of mixed complementarity problems. <i>Numerical Functional Analysis and Optimization</i> , 2000 , 21, 589-600	1	1
11	IS THE MILNE COORDINATE SYSTEM A GOOD ONE?. <i>Modern Physics Letters A</i> , 1994 , 09, 19-27	1.3	1
10	ON THE SCALAR CASIMIR ENERGIES IN SPACE-TIMES WITH Md Tq STRUCTURE. <i>Modern Physics Letters A</i> , 1991 , 06, 1855-1861	1.3	1
9	On a Family of Gradient-Type Projection Methods for Nonlinear Ill-Posed Problems. <i>Numerical Functional Analysis and Optimization</i> , 2018 , 39, 1153-1180	1	1
8	A simplified proof of weak convergence in Douglas-Rachford method. <i>Operations Research Letters</i> , 2019 , 47, 291-293	1	0
7	The multiobjective steepest descent direction is not Lipschitz continuous, but is Hlder continuous. <i>Operations Research Letters</i> , 2018 , 46, 430-433	1	0

- 6 A partially inexact ADMM with $o(1/n)$ asymptotic convergence rate, $\mathcal{O}(1/n)$ complexity, and immediate relative error tolerance. *Optimization*, **2020**, 1-20 1.2
- 5 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 1.6
- 4 A non-type (D) operator in (c_0) . *Mathematical Programming*, **2013**, 139, 81-88 2.1
- 3 Optimal auctions with multidimensional types and the desirability of exclusion. *Journal of Mathematical Economics*, **2013**, 49, 106-110 0.6
- 2 A new Kontorowich-Lebedev-like transformation. *Journal of Physics A*, **1991**, 24, 3199-3203
- 1 A weakly convergent fully inexact Douglas-Rachford method with relative error tolerance. *ESAIM - Control, Optimisation and Calculus of Variations*, **2019**, 25, 57 1