

JÃ©rÃ©me Bolte

List of Publications by Year in descending order

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29
papers

4,324
citations

394421

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docs citations

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times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Proximal alternating linearized minimization for nonconvex and nonsmooth problems. <i>Mathematical Programming</i> , 2014, 146, 459-494.	2.4	948
2	Convergence of descent methods for semi-algebraic and tame problems: proximal algorithms, forwardâ€backward splitting, and regularized Gaussâ€Seidel methods. <i>Mathematical Programming</i> , 2013, 137, 91-129.	2.4	794
3	Proximal Alternating Minimization and Projection Methods for Nonconvex Problems: An Approach Based on the Kurdyka-Łojasiewicz Inequality. <i>Mathematics of Operations Research</i> , 2010, 35, 438-457.	1.3	666
4	The Łojasiewicz Inequality for Nonsmooth Subanalytic Functions with Applications to Subgradient Dynamical Systems. <i>SIAM Journal on Optimization</i> , 2007, 17, 1205-1223.	2.0	414
5	On the convergence of the proximal algorithm for nonsmooth functions involving analytic features. <i>Mathematical Programming</i> , 2009, 116, 5-16.	2.4	339
6	Clarke Subgradients of Stratifiable Functions. <i>SIAM Journal on Optimization</i> , 2007, 18, 556-572.	2.0	236
7	Characterizations of Łojasiewicz inequalities: Subgradient flows, talweg, convexity. <i>Transactions of the American Mathematical Society</i> , 2009, 362, 3319-3363.	0.9	179
8	A Descent Lemma Beyond Lipschitz Gradient Continuity: First-Order Methods Revisited and Applications. <i>Mathematics of Operations Research</i> , 2017, 42, 330-348.	1.3	159
9	From error bounds to the complexity of first-order descent methods for convex functions. <i>Mathematical Programming</i> , 2017, 165, 471-507.	2.4	121
10	First Order Methods Beyond Convexity and Lipschitz Gradient Continuity with Applications to Quadratic Inverse Problems. <i>SIAM Journal on Optimization</i> , 2018, 28, 2131-2151.	2.0	85
11	Hessian Riemannian Gradient Flows in Convex Programming. <i>SIAM Journal on Control and Optimization</i> , 2004, 43, 477-501.	2.1	50
12	Majorization-Minimization Procedures and Convergence of SQP Methods for Semi-Algebraic and Tame Programs. <i>Mathematics of Operations Research</i> , 2016, 41, 442-465.	1.3	47
13	Tame functions are semismooth. <i>Mathematical Programming</i> , 2009, 117, 5-19.	2.4	38
14	On damped second-order gradient systems. <i>Journal of Differential Equations</i> , 2015, 259, 3115-3143.	2.2	35
15	Conservative set valued fields, automatic differentiation, stochastic gradient methods and deep learning. <i>Mathematical Programming</i> , 2021, 188, 19-51.	2.4	29
16	Barrier Operators and Associated Gradient-Like Dynamical Systems for Constrained Minimization Problems. <i>SIAM Journal on Control and Optimization</i> , 2003, 42, 1266-1292.	2.1	26
17	A nonsmooth Morseâ€Sard theorem for subanalytic functions. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 321, 729-740.	1.0	26
18	Generic Optimality Conditions for Semialgebraic Convex Programs. <i>Mathematics of Operations Research</i> , 2011, 36, 55-70.	1.3	26

#	ARTICLE	IF	CITATIONS
19	Nonconvex Lagrangian-Based Optimization: Monitoring Schemes and Global Convergence. <i>Mathematics of Operations Research</i> , 2018, 43, 1210-1232.	1.3	25
20	Definable Zero-Sum Stochastic Games. <i>Mathematics of Operations Research</i> , 2015, 40, 171-191.	1.3	21
21	On Linear Convergence of Non-Euclidean Gradient Methods without Strong Convexity and Lipschitz Gradient Continuity. <i>Journal of Optimization Theory and Applications</i> , 2019, 182, 1068-1087.	1.5	20
22	The multiproximal linearization method for convex composite problems. <i>Mathematical Programming</i> , 2020, 182, 1-36.	2.4	9
23	Researcher's Dilemma*. <i>Review of Economic Studies</i> , 2016, , rdw038.	5.4	7
24	A family of functional inequalities: Łojasiewicz inequalities and displacement convex functions. <i>Journal of Functional Analysis</i> , 2018, 275, 1650-1673.	1.4	5
25	Quartic First-Order Methods for Low-Rank Minimization. <i>Journal of Optimization Theory and Applications</i> , 2021, 189, 341-363.	1.5	5
26	Qualification Conditions in Semialgebraic Programming. <i>SIAM Journal on Optimization</i> , 2018, 28, 1867-1891.	2.0	4
27	Curiosities and counterexamples in smooth convex optimization. <i>Mathematical Programming</i> , 2022, 195, 553-603.	2.4	4
28	Asymptotic expansions for interior penalty solutions of control constrained linear-quadratic problems. <i>Mathematical Programming</i> , 2012, 135, 473-507.	2.4	3
29	Second-Order Step-Size Tuning of SGD for Non-Convex Optimization. <i>Neural Processing Letters</i> , 2022, 54, 1727-1752.	3.2	3