

JÃ©rÃ©me Bolte

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

4,324
citations

393982

19
h-index

476904

29
g-index

29
all docs

29
docs citations

29
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. | 1.6 | 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. | 1.6 | 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. | 0.8 | 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. | 1.2 | 414 |
| 5 | On the convergence of the proximal algorithm for nonsmooth functions involving analytic features. <i>Mathematical Programming</i> , 2009, 116, 5-16. | 1.6 | 339 |
| 6 | Clarke Subgradients of Stratifiable Functions. <i>SIAM Journal on Optimization</i> , 2007, 18, 556-572. | 1.2 | 236 |
| 7 | Characterizations of Łojasiewicz inequalities: Subgradient flows, talweg, convexity. <i>Transactions of the American Mathematical Society</i> , 2009, 362, 3319-3363. | 0.5 | 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. | 0.8 | 159 |
| 9 | From error bounds to the complexity of first-order descent methods for convex functions. <i>Mathematical Programming</i> , 2017, 165, 471-507. | 1.6 | 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. | 1.2 | 85 |
| 11 | Hessian Riemannian Gradient Flows in Convex Programming. <i>SIAM Journal on Control and Optimization</i> , 2004, 43, 477-501. | 1.1 | 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. | 0.8 | 47 |
| 13 | Tame functions are semismooth. <i>Mathematical Programming</i> , 2009, 117, 5-19. | 1.6 | 38 |
| 14 | On damped second-order gradient systems. <i>Journal of Differential Equations</i> , 2015, 259, 3115-3143. | 1.1 | 35 |
| 15 | Conservative set valued fields, automatic differentiation, stochastic gradient methods and deep learning. <i>Mathematical Programming</i> , 2021, 188, 19-51. | 1.6 | 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. | 1.1 | 26 |
| 17 | A nonsmooth Morseâ€Sard theorem for subanalytic functions. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 321, 729-740. | 0.5 | 26 |
| 18 | Generic Optimality Conditions for Semialgebraic Convex Programs. <i>Mathematics of Operations Research</i> , 2011, 36, 55-70. | 0.8 | 26 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Nonconvex Lagrangian-Based Optimization: Monitoring Schemes and Global Convergence. <i>Mathematics of Operations Research</i> , 2018, 43, 1210-1232. | 0.8 | 25 |
| 20 | Definable Zero-Sum Stochastic Games. <i>Mathematics of Operations Research</i> , 2015, 40, 171-191. | 0.8 | 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. | 0.8 | 20 |
| 22 | The multiproximal linearization method for convex composite problems. <i>Mathematical Programming</i> , 2020, 182, 1-36. | 1.6 | 9 |
| 23 | Researcher's Dilemma*. <i>Review of Economic Studies</i> , 2016, , rdw038. | 2.9 | 7 |
| 24 | A family of functional inequalities: Łojasiewicz inequalities and displacement convex functions. <i>Journal of Functional Analysis</i> , 2018, 275, 1650-1673. | 0.7 | 5 |
| 25 | Quartic First-Order Methods for Low-Rank Minimization. <i>Journal of Optimization Theory and Applications</i> , 2021, 189, 341-363. | 0.8 | 5 |
| 26 | Qualification Conditions in Semialgebraic Programming. <i>SIAM Journal on Optimization</i> , 2018, 28, 1867-1891. | 1.2 | 4 |
| 27 | Curiosities and counterexamples in smooth convex optimization. <i>Mathematical Programming</i> , 2022, 195, 553-603. | 1.6 | 4 |
| 28 | Asymptotic expansions for interior penalty solutions of control constrained linear-quadratic problems. <i>Mathematical Programming</i> , 2012, 135, 473-507. | 1.6 | 3 |
| 29 | Second-Order Step-Size Tuning of SGD for Non-Convex Optimization. <i>Neural Processing Letters</i> , 2022, 54, 1727-1752. | 2.0 | 3 |