

# Stephen C Billups

## List of Publications by Year in descending order

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24  
papers

858  
citations

758635

12  
h-index

713013

21  
g-index

24  
all docs

24  
docs citations

24  
times ranked

501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Algorithm 652. ACM Transactions on Mathematical Software, 1987, 13, 281-310.	1.6	351
2	Complementarity problems. Journal of Computational and Applied Mathematics, 2000, 124, 303-318.	1.1	99
3	A Comparison of Large Scale Mixed Complementarity Problem Solvers. Computational Optimization and Applications, 1997, 7, 3-25.	0.9	89
4	A Dynamic Model of Differential Human Capital and Criminal Activity. Economica, 2005, 72, 655-681.	0.9	84
5	QPCOMP: A quadratic programming based solver for mixed complementarity problems. Mathematical Programming, 1997, 76, 533-562.	1.6	34
6	Derivative-Free Optimization of Expensive Functions with Computational Error Using Weighted Regression. SIAM Journal on Optimization, 2013, 23, 27-53.	1.2	26
7	Stochastic derivative-free optimization using a trust region framework. Computational Optimization and Applications, 2016, 64, 619-645.	0.9	26
8	ProxECAT: Proxy External Controls Association Test. A new case-control gene region association test using allele frequencies from public controls. PLoS Genetics, 2018, 14, e1007591.	1.5	23
9	A Homotopy-Based Algorithm for Mixed Complementarity Problems. SIAM Journal on Optimization, 2002, 12, 583-605.	1.2	21
10	Solving the canonical dual of box- and integer-constrained nonconvex quadratic programs via a deterministic direct search algorithm. Optimization Methods and Software, 2013, 28, 313-326.	1.6	17
11	A Probability-One Homotopy Algorithm for Nonsmooth Equations and Mixed Complementarity Problems. SIAM Journal on Optimization, 2002, 12, 606-626.	1.2	15
12	An iterative method for generalized set-valued nonlinear mixed quasi-variational inequalities. Journal of Computational and Applied Mathematics, 2004, 170, 423-432.	1.1	12
13	Identifying significant temporal variation in time course microarray data without replicates. BMC Bioinformatics, 2009, 10, 96.	1.2	12
14	Probability-one homotopy maps for mixed complementarity problems. Computational Optimization and Applications, 2008, 41, 363-375.	0.9	10
15	Convergence of an Infeasible Interior-Point Algorithm from Arbitrary Positive Starting Points. SIAM Journal on Optimization, 1996, 6, 316-325.	1.2	8
16	Improving the robustness of descent-based methods for semismooth equations using proximal perturbations. Mathematical Programming, 2000, 87, 153-175.	1.6	7
17	A Comparison of Large Scale Mixed Complementarity Problem Solvers. , 1997, , 3-25.		7
18	Solutions to Affine Generalized Equations Using Proximal Mappings. Mathematics of Operations Research, 1999, 24, 219-236.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Minimum-Support Solutions for Radiotherapy Planning. <i>Annals of Operations Research</i> , 2003, 119, 229-245.	2.6	4
20	Nonmonotone Path Following Methods for Nonsmooth Equations and Complementarity Problems. <i>Applied Optimization</i> , 2001, , 19-41.	0.4	4
21	A Globally Convergent Probability-One Homotopy for Linear Programs with Linear Complementarity Constraints. <i>SIAM Journal on Optimization</i> , 2013, 23, 1167-1188.	1.2	3
22	MDTri: robust and efficient global mixed integer search of spaces of multiple ternary alloys. <i>Computational Optimization and Applications</i> , 2017, 68, 671-687.	0.9	2
23	Title is missing!. <i>Applied Numerical Mathematics</i> , 2005, 54, 105-106.	1.2	0
24	Dynamic System Diversification for Securing Cloud-based IoT Subnetworks. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2022, 17, 1-23.	0.4	0