Anders Forsgren

List of Publications by Citations

22 papers	752 citations	10 h-index	22 g-index
22 ext. papers	837 ext. citations	2.9 avg, IF	3.92 L-index

#	Paper	IF	Citations
22	Interior Methods for Nonlinear Optimization. *SIAM Review*, **2002**, 44, 525-597	7.4	410
21	Primal-Dual Interior Methods for Nonconvex Nonlinear Programming. *SIAM Journal on Optimization* , **1998**, 8, 1132-1152	2	113
20	Stability of Symmetric Ill-Conditioned Systems Arising in Interior Methods for Constrained Optimization. *SIAM Journal on Matrix Analysis and Applications*, **1996**, 17, 187-211	1.5	41
19	Inertia-controlling factorizations for optimization algorithms. *Applied Numerical Mathematics*, **2002**, 43, 91-107	2.5	33
18	Optimality conditions for nonconvex semidefinite programming. *Mathematical Programming*, **2000**, 88, 105-128	2.1	27
17	Iterative Solution of Augmented Systems Arising in Interior Methods. *SIAM Journal on Optimization*, **2007**, 18, 666-690	2	25
16	Maximizing the probability of satisfying the clinical goals in radiation therapy treatment planning under setup uncertainty. *Medical Physics*, **2015**, 42, 3992-9	4.4	17
15	Primal and dual active-set methods for convex quadratic programming. *Mathematical Programming*, **2016**, 159, 469-508	2.1	14
14	Iterative regularization in intensity-modulated radiation therapy optimization. *Medical Physics*, **2006**, 33, 225-34	4.4	14
13	Explicit optimization of plan quality measures in intensity-modulated radiation therapy treatment planning. *Medical Physics*, **2017**, 44, 2045-2053	4.4	13
12	Novel column generation-based optimization approach for poly-pathway kinetic model applied to CHO cell culture. *Metabolic Engineering Communications*, **2019**, 8, e00083	6.5	10
11	Dimensioning multicast-enabled communications networks. *Networks*, **2002**, 39, 216-231	1.6	10
10	Using eigenstructure of the Hessian to reduce the dimension of the intensity modulated radiation therapy optimization problem. *Annals of Operations Research*, **2006**, 148, 81-94	3.2	8
9	Toward robust adaptive radiation therapy strategies. *Medical Physics*, **2017**, 44, 2054-2065	4.4	6
8	Robustness analysis of elementary flux modes generated by column generation. *Mathematical Biosciences*, **2016**, 273, 45-56	3.9	3
7	On column generation approaches for approximate solutions of quadratic programs in intensity-modulated radiation therapy. *Annals of Operations Research*, **2014**, 223, 471-481	3.2	3
6	On the connection between the conjugate gradient method and quasi-Newton methods on quadratic problems. *Computational Optimization and Applications*, **2015**, 60, 377-392	1.4	1

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5	On exact linesearch quasi-Newton methods for minimizing a quadratic function. *Computational Optimization and Applications*, **2018**, 69, 225-241	1.4	1
4	Exact linesearch limited-memory quasi-Newton methods for minimizing a quadratic function. *Computational Optimization and Applications*, **2021**, 79, 789-816	1.4	1
3	Approximate solution of system of equations arising in interior-point methods for bound-constrained optimization. *Computational Optimization and Applications*, **2021**, 79, 155-191	1.4	1
2	Increased accuracy of planning tools for optimization of dynamic multileaf collimator delivery of radiotherapy through reformulated objective functions. *Physics in Medicine and Biology*, **2018**, 63, 125012	3.8	1
1	On the existence of a short pivoting sequence for a linear program. *Operations Research Letters*, **2020**, 48, 697-702	1	