Jane J Ye

List of Publications by Year
in descending order

88 papers	2,662 citations	218677 26 h-index	206112 48 g-index
90 all docs	90 docs citations	90 times ranked	745 citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbation Techniques for Convergence Analysis of Proximal Gradient Method and Other First-Order Algorithms via Variational Analysis. Set-Valued and Variational Analysis, 2022, 30, 39-79.	1.1	5
2	Directional Necessary Optimality Conditions for Bilevel Programs. Mathematics of Operations Research, 2022, 47, 1169-1191.	1.3	3
3	Second-Order Optimality Conditions for Nonconvex Set-Constrained Optimization Problems. Mathematics of Operations Research, 2022, 47, 2344-2365.	1.3	4
4	Generic Property of the Partial Calmness Condition for Bilevel Programming Problems. SIAM Journal on Optimization, 2022, 32, 604-634.	2.0	2
5	A Lagrange Multiplier Expression Method for Bilevel Polynomial Optimization. SIAM Journal on Optimization, 2021, 31, 2368-2395.	2.0	9
6	Optimality Conditions and Exact Penalty for Mathematical Programs with Switching Constraints. Journal of Optimization Theory and Applications, 2021, 190, 1-31.	1.5	15
7	Variational Analysis Perspective on Linear Convergence of Some First Order Methods for Nonsmooth Convex Optimization Problems. Set-Valued and Variational Analysis, 2021, 29, 803-837.	1.1	12
8	New Sharp Necessary Optimality Conditions for Mathematical Programs with Equilibrium Constraints. Set-Valued and Variational Analysis, 2020, 28, 395-426.	1.1	6
9	Relaxed constant positive linear dependence constraint qualification and its application to bilevel programs. Journal of Global Optimization, 2020, 78, 181-205.	1.8	11
10	Constraint Qualifications and Optimality Conditions in Bilevel Optimization. Springer Optimization and Its Applications, 2020, , 227-251.	0.9	2
11	Directional Quasi-/Pseudo-Normality as Sufficient Conditions for Metric Subregularity. SIAM Journal on Optimization, 2019, 29, 2625-2649.	2.0	13
12	Exact Formula for the Second-Order Tangent Set of the Second-Order Cone Complementarity Set. SIAM Journal on Optimization, 2019, 29, 2986-3011.	2.0	6
13	Necessary optimality conditions and exact penalization for non-Lipschitz nonlinear programs. Mathematical Programming, 2018, 168, 571-598.	2.4	8
14	Necessary Optimality Conditions for Implicit Control Systems with Applications to Control of Differential Algebraic Equations. Set-Valued and Variational Analysis, 2018, 26, 179-203.	1.1	6
15	Verifiable sufficient conditions for the error bound property of second-order cone complementarity problems. Mathematical Programming, 2018, 171, 361-395.	2.4	19
16	Computing A-optimal and E-optimal designs for regression models via semidefinite programming. Communications in Statistics Part B: Simulation and Computation, 2017, 46, 2011-2024.	1.2	6
17	Exact formulas for the proximal/regular/limiting normal cone of the second-order cone complementarity set. Mathematical Programming, 2017, 162, 33-50.	2.4	11
18	An Augmented Lagrangian Method for Non-Lipschitz Nonconvex Programming. SIAM Journal on Numerical Analysis, 2017, 55, 168-193.	2.3	27

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19	New Constraint Qualifications for Mathematical Programs with Equilibrium Constraints via Variational Analysis. SIAM Journal on Optimization, 2017, 27, 842-865.	2.0	37
20	Bilevel Polynomial Programs and Semidefinite Relaxation Methods. SIAM Journal on Optimization, 2017, 27, 1728-1757.	2.0	13
21	First-Order Optimality Conditions for Mathematical Programs with Second-Order Cone Complementarity Constraints. SIAM Journal on Optimization, 2016, 26, 2820-2846.	2.0	14
22	Necessary Optimality Conditions for Optimal Control Problems with Equilibrium Constraints. SIAM Journal on Control and Optimization, 2016, 54, 2710-2733.	2.1	26
23	Modeling the bids of wind power producers in the day-ahead market with stochastic market clearing. Sustainable Energy Technologies and Assessments, 2016, 16, 151-161.	2.7	20
24	Necessary Optimality Conditions for Optimal Control Problems with Nonsmooth Mixed State and Control Constraints. Set-Valued and Variational Analysis, 2016, 24, 449-470.	1.1	16
25	Solving Mathematical Programs with Equilibrium Constraints. Journal of Optimization Theory and Applications, 2015, 166, 234-256.	1.5	38
26	Smoothing SQP Methods for Solving Degenerate Nonsmooth Constrained Optimization Problems with Applications to Bilevel Programs. SIAM Journal on Optimization, 2015, 25, 1388-1410.	2.0	21
27	K-Optimal Design via Semidefinite Programming and Entropy Optimization. Mathematics of Operations Research, 2015, 40, 495-512.	1.3	1
28	Smoothing augmented Lagrangian method for nonsmooth constrained optimization problems. Journal of Global Optimization, 2015, 62, 675-694.	1.8	11
29	Sensitivity Analysis of the Value Function for Parametric Mathematical Programs with Equilibrium Constraints. SIAM Journal on Optimization, 2014, 24, 1206-1237.	2.0	24
30	A smoothing augmented Lagrangian method for solving simple bilevel programs. Computational Optimization and Applications, 2014, 59, 353-377.	1.6	26
31	Enhanced Karush–Kuhn–Tucker Conditions for Mathematical Programs with Equilibrium Constraints. Journal of Optimization Theory and Applications, 2014, 163, 777-794.	1.5	26
32	On solving simple bilevel programs with a nonconvex lower level program. Mathematical Programming, 2014, 144, 277-305.	2.4	51
33	First order optimality conditions for mathematical programs with semidefinite cone complementarity constraints. Mathematical Programming, 2014, 147, 539-579.	2.4	41
34	Solving semi-infinite programs by smoothing projected gradient method. Computational Optimization and Applications, 2014, 59, 591-616.	1.6	12
35	Enhanced Karush–Kuhn–Tucker condition and weaker constraint qualifications. Mathematical Programming, 2013, 139, 353-381.	2.4	22
36	Mathematical Programs with Geometric Constraints in Banach Spaces: Enhanced Optimality, Exact Penalty, and Sensitivity. SIAM Journal on Optimization, 2013, 23, 2295-2319.	2.0	23

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37	Minimizing the Condition Number to Construct Design Points for Polynomial Regression Models. SIAM Journal on Optimization, 2013, 23, 666-686.	2.0	24
38	Second-Order Optimality Conditions for Mathematical Programs with Equilibrium Constraints. Journal of Optimization Theory and Applications, 2013, 158, 33-64.	1.5	43
39	Stability Analysis for Parametric Mathematical Programs with Geometric Constraints and Its Applications. SIAM Journal on Optimization, 2012, 22, 1151-1176.	2.0	19
40	The exact penalty principle. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1642-1654.	1.1	20
41	Minimizing the Condition Number of a Gram Matrix. SIAM Journal on Optimization, 2011, 21, 127-148.	2.0	29
42	Approximating Stationary Points of Stochastic Mathematical Programs with Equilibrium Constraints via Sample Averaging. Set-Valued and Variational Analysis, 2011, 19, 283-309.	1.1	9
43	Necessary Optimality Conditions for Multiobjective Bilevel Programs. Mathematics of Operations Research, 2011, 36, 165-184.	1.3	47
44	Penalized Sample Average Approximation Methods for Stochastic Mathematical Programs with Complementarity Constraints. Mathematics of Operations Research, 2011, 36, 670-694.	1.3	9
45	New Necessary Optimality Conditions for Bilevel Programs by Combining the MPEC and Value Function Approaches. SIAM Journal on Optimization, 2010, 20, 1885-1905.	2.0	97
46	Necessary Optimality Conditions for Two-Stage Stochastic Programs with Equilibrium Constraints. SIAM Journal on Optimization, 2010, 20, 1685-1715.	2.0	20
47	Bregman distances and Klee sets. Journal of Approximation Theory, 2009, 158, 170-183.	0.8	8
48	A Class of Quadratic Programs with Linear Complementarity Constraints. Set-Valued and Variational Analysis, 2009, 17, 113-133.	1.1	5
49	Bregman distances and Chebyshev sets. Journal of Approximation Theory, 2009, 159, 3-25.	0.8	29
50	Optimizing Condition Numbers. SIAM Journal on Optimization, 2009, 20, 935-947.	2.0	32
51	Partial Exact Penalty for Mathematical Programs with Equilibrium Constraints. Set-Valued and Variational Analysis, 2008, 16, 785-804.	0.5	20
52	First Order Optimality Conditions for Generalized Semi-Infinite Programming Problems. Journal of Optimization Theory and Applications, 2008, 137, 419-434.	1.5	25
53	Quasiconvex Minimization on a Locally Finite Union ofÂConvex Sets. Journal of Optimization Theory and Applications, 2008, 139, 1-16.	1.5	6
54	Existence and symmetry of minimax regression designs. Journal of Statistical Planning and Inference, 2007, 137, 344-354.	0.6	4

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55	Discrete minimax designs for regression models with autocorrelated MA errors. Journal of Statistical Planning and Inference, 2007, 137, 2721-2731.	0.6	7
56	Merit-Function Piecewise SQP Algorithm for Mathematical Programs with Equilibrium Constraints. Journal of Optimization Theory and Applications, 2007, 135, 623-641.	1.5	4
57	Constraint Qualifications and KKT Conditions for Bilevel Programming Problems. Mathematics of Operations Research, 2006, 31, 811-824.	1.3	49
58	Quasiconvex programming with locally starshaped constraint region and applications to quasiconvex MPEC. Optimization, 2006, 55, 433-457.	1.7	22
59	Necessary and sufficient optimality conditions for mathematical programs with equilibrium constraints. Journal of Mathematical Analysis and Applications, 2005, 307, 350-369.	1.0	194
60	Error Bounds for Eigenvalue and Semidefinite Matrix Inequality Systems. Mathematical Programming, 2005, 104, 525-540.	2.4	10
61	First-Order and Second-Order Conditions for Error Bounds. SIAM Journal on Optimization, 2004, 14, 621-645.	2.0	44
62	Nondifferentiable Multiplier Rules for Optimization and Bilevel Optimization Problems. SIAM Journal on Optimization, 2004, 15, 252-274.	2.0	58
63	For misspecified regression models. Canadian Journal of Statistics, 2003, 31, 397-414.	0.9	13
64	Multiobjective optimization problem with variational inequality constraints. Mathematical Programming, 2003, 96, 139-160.	2.4	54
65	Equivalence among various derivatives and subdifferentials of the distance function. Journal of Mathematical Analysis and Applications, 2003, 282, 629-647.	1.0	21
66	Sufficient Conditions for Error Bounds. SIAM Journal on Optimization, 2002, 12, 421-435.	2.0	53
67	On error bounds for lower semicontinuous functions. Mathematical Programming, 2002, 92, 301-314.	2.4	82
68	Sensitivity Analysis of the Value Function for Optimization Problems with Variational Inequality Constraints. SIAM Journal on Control and Optimization, 2001, 40, 699-723.	2.1	32
69	Some results on integration of subdifferentials. Nonlinear Analysis: Theory, Methods & Applications, 2000, 39, 955-976.	1.1	6
70	Constraint Qualifications and Necessary Optimality Conditions for Optimization Problems with Variational Inequality Constraints. SIAM Journal on Optimization, 2000, 10, 943-962.	2.0	123
71	Multiplier Rules Under Mixed Assumptions of Differentiability and Lipschitz Continuity. SIAM Journal on Control and Optimization, 2000, 39, 1441-1460.	2.1	14
72	Optimality Conditions for Optimization Problems with Complementarity Constraints. SIAM Journal on Optimization, 1999, 9, 374-387.	2.0	81

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73	New Uniform Parametric Error Bounds. Journal of Optimization Theory and Applications, 1998, 98, 197-219.	1.5	19
74	Hamiltonâ€"Jacobi theory for a generalized optimal stopping time problem. Nonlinear Analysis: Theory, Methods & Applications, 1998, 34, 1029-1053.	1.1	4
75	Necessary Optimality Conditions for Optimization Problems with Variational Inequality Constraints. Mathematics of Operations Research, 1997, 22, 977-997.	1.3	159
76	Optimal Strategies For Bilevel Dynamic Problems. SIAM Journal on Control and Optimization, 1997, 35, 512-531.	2.1	43
77	A note on optimality conditions for bilevel programming problemsâˆ—. Optimization, 1997, 39, 361-366.	1.7	29
78	Exact Penalization and Necessary Optimality Conditions for Generalized Bilevel Programming Problems. SIAM Journal on Optimization, 1997, 7, 481-507.	2.0	150
79	Perturbed Differential Inclusion Problems with Nonadditive L 1-Perturbations and Applications. Journal of Optimization Theory and Applications, 1997, 92, 189-208.	1.5	5
80	Generalized Bellman-Hamilton-Jacobi optimality conditions for a control problem with a boundary condition. Applied Mathematics and Optimization, 1996, 33, 211-225.	1.6	9
81	Variational analysis of an extended eigenvalue problem. Linear Algebra and Its Applications, 1995, 220, 391-417.	0.9	5
82	Optimality conditions for bilevel programming problems. Optimization, 1995, 33, 9-27.	1.7	210
83	Necessary Conditions for Bilevel Dynamic Optimization Problems. SIAM Journal on Control and Optimization, 1995, 33, 1208-1223.	2.1	29
84	THE ROLE OF STOCHASTIC MONOTONICITY IN THE DECISION TO CONSERVE OR HARVEST OLDâ€GROWTH FOREST. Natural Resource Modelling, 1994, 8, 47-79.	2.0	17
85	Perturbed Infinite Horizon Optimal Control Problems. Journal of Mathematical Analysis and Applications, 1994, 182, 90-112.	1.0	5
86	COSTâ€BENEFIT ANALYSIS APPLIED TO WILDERNESS PRESERVATIONâ€"OPTION VALUE UNCERTAINTY AND DITONICITY. Natural Resource Modelling, 1994, 8, 335-372.	2.0	1
87	Nonsmooth maximum principle for infinite-horizon problems. Journal of Optimization Theory and Applications, 1993, 76, 485-500.	1.5	37
88	Necessary and sufficient optimality conditions for control of piecewise deterministic markov processes. Stochastic and Stochastics Reports, 1992, 40, 125-145.	0.6	27