Christian Kanzow

List of Publications by Year
in descending order

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110	5,972	71102	79698
papers	citations	41 h-index	73 g-index

115	115	115	2227
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Globalized inexact proximal Newton-type methods for nonconvex composite functions. Computational Optimization and Applications, 2021, 78, 377-410.	1.6	14
2	ADMM-Type Methods for Generalized Nash Equilibrium Problems in Hilbert Spaces. SIAM Journal on Optimization, 2021, 31, 377-403.	2.0	7
3	An Augmented Lagrangian Method for Cardinality-Constrained Optimization Problems. Journal of Optimization Theory and Applications, 2021, 189, 793-813.	1.5	11
4	Sequential optimality conditions for cardinality-constrained optimization problems with applications. Computational Optimization and Applications, 2021, 80, 185-211.	1.6	13
5	New Constraint Qualifications for Optimization Problems in Banach Spaces Based on Asymptotic KKT Conditions. SIAM Journal on Optimization, 2020, 30, 2956-2982.	2.0	13
6	Relaxation schemes for mathematical programmes with switching constraints. Optimization Methods and Software, 2019, , 1-36.	2.4	16
7	The Multiplier-Penalty Method for Generalized Nash Equilibrium Problems in Banach Spaces. SIAM Journal on Optimization, 2019, 29, 767-793.	2.0	10
8	Regularized Jacobi-type ADMM-methods for a class of separable convex optimization problems in Hilbert spaces. Computational Optimization and Applications, 2019, 73, 755-790.	1.6	8
9	Quasi-Variational Inequalities in Banach Spaces: Theory and Augmented Lagrangian Methods. SIAM Journal on Optimization, 2019, 29, 3174-3200.	2.0	12
10	Local and Global Analysis of Multiplier Methods for Constrained Optimization in Banach Spaces. SIAM Journal on Control and Optimization, 2019, 57, 3694-3722.	2.1	10
11	Improved local convergence results for augmented Lagrangian methods in $${varvec{C}}^mathbf{2}$$C2-cone reducible constrained optimization. Mathematical Programming, 2019, 177, 425-438.	2.4	7
12	Strong convergence of a double projection-type method for monotone variational inequalities in Hilbert spaces. Journal of Fixed Point Theory and Applications, 2018, 20, 1.	1.1	39
13	An Augmented Lagrangian Method for Optimization Problems in Banach Spaces. SIAM Journal on Control and Optimization, 2018, 56, 272-291.	2.1	31
14	A nonmonotone trust-region method for generalized Nash equilibrium and related problems with strong convergence properties. Computational Optimization and Applications, 2018, 69, 629-652.	1.6	2
15	Augmented Lagrangian and exact penalty methods for quasi-variational inequalities. Computational Optimization and Applications, 2018, 69, 801-824.	1.6	11
16	A Distributed Regularized Jacobi-Type ADMM-Method for Generalized Nash Equilibrium Problems in Hilbert Spaces. Numerical Functional Analysis and Optimization, 2018, 39, 1316-1349.	1.4	8
17	On Error Bounds and Multiplier Methods for Variational Problems in Banach Spaces. SIAM Journal on Control and Optimization, 2018, 56, 1716-1738.	2.1	9
18	Generalized Krasnoselskiiâ€“Mann-type iterations for nonexpansive mappings in Hilbert spaces. Computational Optimization and Applications, 2017, 67, 595-620.	1.6	27

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19	An example comparing the standard and safeguarded augmented Lagrangian methods. Operations Research Letters, 2017, 45, 598-603.	0.7	30
20	A generalized proximal-point method for convex optimization problems in Hilbert spaces. Optimization, 2017, 66, 1667-1676.	1.7	2
21	Augmented Lagrangian Methods for the Solution of Generalized Nash Equilibrium Problems. SIAM Journal on Optimization, 2016, 26, 2034-2058.	2.0	46
22	On the multiplier-penalty-approach for quasi-variational inequalities. Mathematical Programming, 2016, 160, 33-63.	2.4	10
23	On Newtonâ€™s Method for the Fermatâ€“Weber Location Problem. Journal of Optimization Theory and Applications, 2016, 170, 107-118.	1.5	10
24	Mathematical Programs with Cardinality Constraints: Reformulation by Complementarity-Type Conditions and a Regularization Method. SIAM Journal on Optimization, 2016, 26, 397-425.	2.0	76
25	Constraint qualifications and optimality conditions for optimization problems with cardinality constraints. Mathematical Programming, 2016, 160, 353-377.	2.4	35
26	The Price of Inexactness: Convergence Properties of Relaxation Methods for Mathematical Programs with Complementarity Constraints Revisited. Mathematics of Operations Research, 2015, 40, 253-275.	1.3	34
27	On differentiability properties of player convex generalized Nash equilibrium problems. Optimization, 2015, 64, 365-388.	1.7	7
28	The semismooth Newton method for the solution of quasi-variational inequalities. Computational Optimization and Applications, 2015, 62, 85-109.	1.6	23
29	On a Smooth Dual Gap Function for a Class of Player Convex Generalized Nash Equilibrium Problems. Journal of Optimization Theory and Applications, 2015, 166, 659-685.	1.5	2
30	Lottery versus all-pay auction contests: A revenue dominance theorem. Games and Economic Behavior, 2014, 83, 116-126.	0.8	38
31	Convergence properties of the inexact Lin-Fukushima relaxation method for mathematical programs with complementarity constraints. Computational Optimization and Applications, 2014, 59, 249-262.	1.6	8
32	Solving quasi-variational inequalities via their KKT conditions. Mathematical Programming, 2014, 144, 369-412.	2.4	92
33	On a Smooth Dual Gap Function for a Class of Quasi-Variational Inequalities. Journal of Optimization Theory and Applications, 2014, 163, 413-438.	1.5	7
34	Smoothness properties of a regularized gap function for quasi-variational inequalities. Optimization Methods and Software, 2014, 29, 720-750.	2.4	15
35	Effort maximization in asymmetric contest games with heterogeneous contestants. Economic Theory, 2013, 52, 589-630.	0.9	89
36	A smoothing-regularization approach to mathematical programs with vanishing constraints. Computational Optimization and Applications, 2013, 55, 733-767.	1.6	27

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37	Gradient Consistency for Integral-convolution Smoothing Functions. Set-Valued and Variational Analysis, 2013, 21, 359-376.	1.1	16
38	Theoretical and numerical comparison of relaxation methods for mathematical programs with complementarity constraints. Mathematical Programming, 2013, 137, 257-288.	2.4	124
39	A New Regularization Method for Mathematical Programs with Complementarity Constraints with Strong Convergence Properties. SIAM Journal on Optimization, 2013, 23, 770-798.	2.0	45
40	Formulation and Numerical Solution of Nash Equilibrium Multiobjective Elliptic Control Problems. SIAM Journal on Control and Optimization, 2013, 51, 718-744.	2.1	15
41	A globalized Newton method for the computation of normalized Nash equilibria. Journal of Global Optimization, 2013, 56, 327-340.	1.8	12
42	On a relaxation method for mathematical programs with vanishing constraints. GAMM Mitteilungen, 2012, 35, 110-130.	5.5	13
43	Lottery Versus All-Pay Auction Contests â€“ A Revenue Dominance Theorem. SSRN Electronic Journal, 2012, , .	0.4	5
44	Convergence of a local regularization approach for mathematical programmes with complementarity or vanishing constraints. Optimization Methods and Software, 2012, 27, 483-512.	2.4	26
45	Mathematical programs with vanishing constraints: a new regularization approach with strong convergence properties. Optimization, 2012, 61, 619-636.	1.7	13
46	Nonsmooth optimization reformulations of player convex generalized Nash equilibrium problems. Journal of Global Optimization, 2012, 53, 587-614.	1.8	32
47	Newtonâ€™s method for computing a normalized equilibrium in the generalized Nash game through fixed point formulation. Mathematical Programming, 2012, 132, 99-123.	2.4	29
48	Bounds for the extremal eigenvalues of a class of symmetric tridiagonal matrices with applications. Linear Algebra and Its Applications, 2012, 436, 1837-1849.	0.9	2
49	Generalized Newtonâ€™s method based on graphical derivatives. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1324-1340.	1.1	16
50	On the solution of the KKT conditions of generalized Nash equilibrium problems. SIAM Journal on Optimization, 2011, 21, 1082-1108.	2.0	100
51	Nonsmooth optimization reformulations characterizing all solutions of jointly convex generalized Nash equilibrium problems. Computational Optimization and Applications, 2011, 50, 23-48.	1.6	18
52	The semismooth Newton method for the solution ofÂreactive transport problems including mineral precipitation-dissolution reactions. Computational Optimization and Applications, 2011, 50, 193-221.	1.6	13
53	Improved convergence properties of the Lin-Fukushima-Regularization method for mathematical programs with complementarity constraints. Numerical Algebra, Control and Optimization, 2011, 1, 49-60.	1.6	6
54	Generalized Nash Equilibrium Problems. Annals of Operations Research, 2010, 175, 177-211.	4.1	448

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55	Exact penalty results for mathematical programs with vanishing constraints. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 2514-2526.	1.1	41
56	Mathematical Programs with Equilibrium Constraints: Enhanced Fritz John-conditions, New Constraint Qualifications, and Improved Exact Penalty Results. SIAM Journal on Optimization, 2010, 20, 2730-2753.	2.0	52
57	Penalty Methods for the Solution of Generalized Nash Equilibrium Problems. SIAM Journal on Optimization, 2010, 20, 2228-2253.	2.0	92
58	Optimization reformulations of the generalized Nash equilibrium problem using Nikaido-Isoda-type functions. Computational Optimization and Applications, 2009, 43, 353-377.	1.6	102
59	Relaxation Methods for Generalized Nash Equilibrium Problems with Inexact Line Search. Journal of Optimization Theory and Applications, 2009, 143, 159-183.	1.5	48
60	On the Abadie and Guignard constraint qualifications for Mathematical Programmes with Vanishing Constraints. Optimization, 2009, 58, 431-448.	1.7	62
61	On the Local Convergence of Semismooth Newton Methods for Linear and Nonlinear Second-Order Cone Programs Without Strict Complementarity. SIAM Journal on Optimization, 2009, 20, 297-320.	2.0	74
62	Mathematical programs with vanishing constraints: optimality conditions and constraint qualifications. Mathematical Programming, 2008, 114, 69-99.	2.4	126
63	Stationary conditions for mathematical programs with vanishing constraints using weak constraint qualifications. Journal of Mathematical Analysis and Applications, 2008, 337, 292-310.	1.0	60
64	SC¹optimization reformulations of the generalized Nash equilibrium problem. Optimization Methods and Software, 2008, 23, 953-973.	2.4	20
65	Projected filter trust region methods for a semismooth least squares formulation of mixed complementarity problems. Optimization Methods and Software, 2007, 22, 713-735.	2.4	22
66	Optimality Conditions for Disjunctive Programs with Application to Mathematical Programs with Equilibrium Constraints. Set-Valued and Variational Analysis, 2007, 15, 139-162.	0.5	71
67	An interior-point affine-scaling trust-region method for semismooth equations with box constraints. Computational Optimization and Applications, 2007, 37, 329-353.	1.6	28
68	Generalized Nash equilibrium problems. 4or, 2007, 5, 173-210.	1.6	404
69	First-and second-order optimality conditions for mathematical programs with vanishing constraints. Applications of Mathematics, 2007, 52, 495-514.	0.9	54
70	On Affine-Scaling Interior-Point Newton Methods for Nonlinear Minimization with Bound Constraints. Computational Optimization and Applications, 2006, 35, 177-197.	1.6	42
71	A direct proof for M-stationarity under MPEC-GCQ for mathematical programs with equilibrium constraints. , 2006, , 111-122.		17
72	On M-stationary points for mathematical programs with equilibrium constraints. Journal of Mathematical Analysis and Applications, 2005, 310, 286-302.	1.0	42

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73	Successive Linearization Methods for Nonlinear Semidefinite Programs. Computational Optimization and Applications, 2005, 31, 251-273.	1.6	53
74	On the Guignard constraint qualification for mathematical programs with equilibrium constraints. Optimization, 2005, 54, 517-534.	1.7	73
75	Inexact semismooth Newton methods for large-scale complementarity problems. Optimization Methods and Software, 2004, 19, 309-325.	2.4	57
76	On a semismooth least squares formulation of complementarity problems with gap reduction. Optimization Methods and Software, 2004, 19, 507-525.	2.4	24
77	Levenbergâ€“Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. Journal of Computational and Applied Mathematics, 2004, 172, 375-397.	2.0	257
78	A Fritz John Approach to First Order Optimality Conditions for Mathematical Programs with Equilibrium Constraints. Optimization, 2003, 52, 277-286.	1.7	36
79	Semidefinite Programs: New Search Directions, Smoothing-Type Methods, and Numerical Results. SIAM Journal on Optimization, 2002, 13, 1-23.	2.0	55
80	Improved smoothing-type methods for the solution of linear programs. Numerische Mathematik, 2002, 90, 487-507.	1.9	29
81	Title is missing!. Computational Optimization and Applications, 2002, 23, 299-320.	1.6	7
82	Theorie und Numerik restringierter Optimierungsaufgaben. , 2002, , .		85
83	The Semismooth Algorithm for Large Scale Complementarity Problems. INFORMS Journal on Computing, 2001, 13, 294-311.	1.7	49
84	Strictly feasible equation-based methods for mixed complementarity problems. Numerische Mathematik, 2001, 89, 135-160.	1.9	40
85	On the Solution of Linear Programs by Jacobian Smoothing Methods. Annals of Operations Research, 2001, 103, 49-70.	4.1	5
86	An Active Set-Type Newton Method for Constrained Nonlinear Systems. Applied Optimization, 2001, , 179-200.	0.4	30
87	Global Optimization Techniques for Mixed Complementarity Problems. Journal of Global Optimization, 2000, 16, 1-21.	1.8	32
88	A Theoretical and Numerical Comparison of Some Semismooth Algorithms for Complementarity Problems. Computational Optimization and Applications, 2000, 16, 173-205.	1.6	66
89	A penalized Fischer-Burmeister NCP-function. Mathematical Programming, 2000, 88, 211-216.	2.4	138
90	On the Identification of Zero Variables in an Interior-Point Framework. SIAM Journal on Optimization, 2000, 10, 1058-1078.	2.0	17

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91	A QP-free constrained Newton-type method for variational inequality problems. Mathematical Programming, 1999, 85, 81-106.	2.4	79
92	Feasible descent algorithms for mixed complementarity problems. Mathematical Programming, 1999, 86, 475-497.	2.4	72
93	Jacobian Smoothing Methods for Nonlinear Complementarity Problems. SIAM Journal on Optimization, 1999, 9, 342-373.	2.0	85
94	A New Class of Semismooth Newton-Type Methods for Nonlinear Complementarity Problems. Computational Optimization and Applications, 1998, 11, 227-251.	1.6	96
95	A continuation method for (strongly) monotone variational inequalities. Mathematical Programming, 1998, 81, 103-125.	2.4	26
96	Theoretical and numerical investigation of the D-gap function for box constrained variational inequalities. Mathematical Programming, 1998, 83, 55-87.	2.4	30
97	An inexact QP -based method for nonlinear complementarity problems. Numerische Mathematik, 1998, 80, 557-577.	1.9	8
98	Solving box constrained variational inequalities by using the natural residual with D-gap function globalization. Operations Research Letters, 1998, 23, 45-51.	0.7	33
99	On the Accurate Identification of Active Constraints. SIAM Journal on Optimization, 1998, 9, 14-32.	2.0	164
100	Regularity Properties of a Semismooth Reformulation of Variational Inequalities. SIAM Journal on Optimization, 1998, 8, 850-869.	2.0	55
101	A nonsmooth inexact Newton method for the solution of large-scale nonlinear complementarity problems. Mathematical Programming, 1997, 76, 493-512.	2.4	107
102	A new approach to continuation methods for complementarity problems with uniform P-functions. Operations Research Letters, 1997, 20, 85-92.	0.7	30
103	Global Convergence Properties of Some Iterative Methods for Linear Complementarity Problems. SIAM Journal on Optimization, 1996, 6, 326-341.	2.0	47
104	Some Noninterior Continuation Methods for Linear Complementarity Problems. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 851-868.	1.4	335
105	A semismooth equation approach to the solution of nonlinear complementarity problems. Mathematical Programming, 1996, 75, 407-439.	2.4	232
106	On finite termination of an iterative method for linear complementarity problems. Mathematical Programming, 1996, 74, 279-292.	2.4	31
107	On the resolution of monotone complementarity problems. Computational Optimization and Applications, 1996, 5, 155-173.	1.6	158
108	Inexact Newton Methods for Semismooth Equations with Applications to Variational Inequality Problems. , 1996, , 125-139.		39

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109	A Class of Netwton-Type methods for equality and ineqality constrained optimization. Optimization Methods and Software, 1995, 5, 173-198.	2.4	22
110	Some equation-based methods for the nonlinear complementarity problem. Optimization Methods and Software, 1994, 3, 327-340.	2.4	95