

Christian Kanzow

List of Publications by Year in descending order

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110
papers

5,972
citations

71102

41
h-index

79698

73
g-index

115
all docs

115
docs citations

115
times ranked

2227
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Nash Equilibrium Problems. <i>Annals of Operations Research</i> , 2010, 175, 177-211.	4.1	448
2	Generalized Nash equilibrium problems. <i>4or</i> , 2007, 5, 173-210.	1.6	404
3	Some Noninterior Continuation Methods for Linear Complementarity Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1996, 17, 851-868.	1.4	335
4	Levenberg–Marquardt methods with strong local convergence properties for solving nonlinear equations with convex constraints. <i>Journal of Computational and Applied Mathematics</i> , 2004, 172, 375-397.	2.0	257
5	A semismooth equation approach to the solution of nonlinear complementarity problems. <i>Mathematical Programming</i> , 1996, 75, 407-439.	2.4	232
6	On the Accurate Identification of Active Constraints. <i>SIAM Journal on Optimization</i> , 1998, 9, 14-32.	2.0	164
7	On the resolution of monotone complementarity problems. <i>Computational Optimization and Applications</i> , 1996, 5, 155-173.	1.6	158
8	A penalized Fischer-Burmeister NCP-function. <i>Mathematical Programming</i> , 2000, 88, 211-216.	2.4	138
9	Mathematical programs with vanishing constraints: optimality conditions and constraint qualifications. <i>Mathematical Programming</i> , 2008, 114, 69-99.	2.4	126
10	Theoretical and numerical comparison of relaxation methods for mathematical programs with complementarity constraints. <i>Mathematical Programming</i> , 2013, 137, 257-288.	2.4	124
11	A nonsmooth inexact Newton method for the solution of large-scale nonlinear complementarity problems. <i>Mathematical Programming</i> , 1997, 76, 493-512.	2.4	107
12	Optimization reformulations of the generalized Nash equilibrium problem using Nikaido-Isoda-type functions. <i>Computational Optimization and Applications</i> , 2009, 43, 353-377.	1.6	102
13	On the solution of the KKT conditions of generalized Nash equilibrium problems. <i>SIAM Journal on Optimization</i> , 2011, 21, 1082-1108.	2.0	100
14	A New Class of Semismooth Newton-Type Methods for Nonlinear Complementarity Problems. <i>Computational Optimization and Applications</i> , 1998, 11, 227-251.	1.6	96
15	Some equation-based methods for the nonlinear complementarity problem. <i>Optimization Methods and Software</i> , 1994, 3, 327-340.	2.4	95
16	Penalty Methods for the Solution of Generalized Nash Equilibrium Problems. <i>SIAM Journal on Optimization</i> , 2010, 20, 2228-2253.	2.0	92
17	Solving quasi-variational inequalities via their KKT conditions. <i>Mathematical Programming</i> , 2014, 144, 369-412.	2.4	92
18	Effort maximization in asymmetric contest games with heterogeneous contestants. <i>Economic Theory</i> , 2013, 52, 589-630.	0.9	89

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19	Jacobian Smoothing Methods for Nonlinear Complementarity Problems. SIAM Journal on Optimization, 1999, 9, 342-373.	2.0	85
20	Theorie und Numerik restringierter Optimierungsaufgaben. , 2002, , .		85
21	A QP-free constrained Newton-type method for variational inequality problems. Mathematical Programming, 1999, 85, 81-106.	2.4	79
22	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
23	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
24	On the Guignard constraint qualification for mathematical programs with equilibrium constraints. Optimization, 2005, 54, 517-534.	1.7	73
25	Feasible descent algorithms for mixed complementarity problems. Mathematical Programming, 1999, 86, 475-497.	2.4	72
26	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
27	A Theoretical and Numerical Comparison of Some Semismooth Algorithms for Complementarity Problems. Computational Optimization and Applications, 2000, 16, 173-205.	1.6	66
28	On the Abadie and Guignard constraint qualifications for Mathematical Programmes with Vanishing Constraints. Optimization, 2009, 58, 431-448.	1.7	62
29	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
30	Inexact semismooth Newton methods for large-scale complementarity problems. Optimization Methods and Software, 2004, 19, 309-325.	2.4	57
31	Regularity Properties of a Semismooth Reformulation of Variational Inequalities. SIAM Journal on Optimization, 1998, 8, 850-869.	2.0	55
32	Semidefinite Programs: New Search Directions, Smoothing-Type Methods, and Numerical Results. SIAM Journal on Optimization, 2002, 13, 1-23.	2.0	55
33	First-and second-order optimality conditions for mathematical programs with vanishing constraints. Applications of Mathematics, 2007, 52, 495-514.	0.9	54
34	Successive Linearization Methods for Nonlinear Semidefinite Programs. Computational Optimization and Applications, 2005, 31, 251-273.	1.6	53
35	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
36	The Semismooth Algorithm for Large Scale Complementarity Problems. INFORMS Journal on Computing, 2001, 13, 294-311.	1.7	49

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37	Relaxation Methods for Generalized Nash Equilibrium Problems with Inexact Line Search. <i>Journal of Optimization Theory and Applications</i> , 2009, 143, 159-183.	1.5	48
38	Global Convergence Properties of Some Iterative Methods for Linear Complementarity Problems. <i>SIAM Journal on Optimization</i> , 1996, 6, 326-341.	2.0	47
39	Augmented Lagrangian Methods for the Solution of Generalized Nash Equilibrium Problems. <i>SIAM Journal on Optimization</i> , 2016, 26, 2034-2058.	2.0	46
40	A New Regularization Method for Mathematical Programs with Complementarity Constraints with Strong Convergence Properties. <i>SIAM Journal on Optimization</i> , 2013, 23, 770-798.	2.0	45
41	On M-stationary points for mathematical programs with equilibrium constraints. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 310, 286-302.	1.0	42
42	On Affine-Scaling Interior-Point Newton Methods for Nonlinear Minimization with Bound Constraints. <i>Computational Optimization and Applications</i> , 2006, 35, 177-197.	1.6	42
43	Exact penalty results for mathematical programs with vanishing constraints. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2010, 72, 2514-2526.	1.1	41
44	Strictly feasible equation-based methods for mixed complementarity problems. <i>Numerische Mathematik</i> , 2001, 89, 135-160.	1.9	40
45	Inexact Newton Methods for Semismooth Equations with Applications to Variational Inequality Problems. , 1996, , 125-139.		39
46	Strong convergence of a double projection-type method for monotone variational inequalities in Hilbert spaces. <i>Journal of Fixed Point Theory and Applications</i> , 2018, 20, 1.	1.1	39
47	Lottery versus all-pay auction contests: A revenue dominance theorem. <i>Games and Economic Behavior</i> , 2014, 83, 116-126.	0.8	38
48	A Fritz John Approach to First Order Optimality Conditions for Mathematical Programs with Equilibrium Constraints. <i>Optimization</i> , 2003, 52, 277-286.	1.7	36
49	Constraint qualifications and optimality conditions for optimization problems with cardinality constraints. <i>Mathematical Programming</i> , 2016, 160, 353-377.	2.4	35
50	The Price of Inexactness: Convergence Properties of Relaxation Methods for Mathematical Programs with Complementarity Constraints Revisited. <i>Mathematics of Operations Research</i> , 2015, 40, 253-275.	1.3	34
51	Solving box constrained variational inequalities by using the natural residual with D-gap function globalization. <i>Operations Research Letters</i> , 1998, 23, 45-51.	0.7	33
52	Global Optimization Techniques for Mixed Complementarity Problems. <i>Journal of Global Optimization</i> , 2000, 16, 1-21.	1.8	32
53	Nonsmooth optimization reformulations of player convex generalized Nash equilibrium problems. <i>Journal of Global Optimization</i> , 2012, 53, 587-614.	1.8	32
54	On finite termination of an iterative method for linear complementarity problems. <i>Mathematical Programming</i> , 1996, 74, 279-292.	2.4	31

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55	An Augmented Lagrangian Method for Optimization Problems in Banach Spaces. SIAM Journal on Control and Optimization, 2018, 56, 272-291.	2.1	31
56	A new approach to continuation methods for complementarity problems with uniform P-functions. Operations Research Letters, 1997, 20, 85-92.	0.7	30
57	Theoretical and numerical investigation of the D-gap function for box constrained variational inequalities. Mathematical Programming, 1998, 83, 55-87.	2.4	30
58	An example comparing the standard and safeguarded augmented Lagrangian methods. Operations Research Letters, 2017, 45, 598-603.	0.7	30
59	An Active Set-Type Newton Method for Constrained Nonlinear Systems. Applied Optimization, 2001, , 179-200.	0.4	30
60	Improved smoothing-type methods for the solution of linear programs. Numerische Mathematik, 2002, 90, 487-507.	1.9	29
61	Newton'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
62	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
63	A smoothing-regularization approach to mathematical programs with vanishing constraints. Computational Optimization and Applications, 2013, 55, 733-767.	1.6	27
64	Generalized Krasnoselskii-Mann-type iterations for nonexpansive mappings in Hilbert spaces. Computational Optimization and Applications, 2017, 67, 595-620.	1.6	27
65	A continuation method for (strongly) monotone variational inequalities. Mathematical Programming, 1998, 81, 103-125.	2.4	26
66	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
67	On a semismooth least squares formulation of complementarity problems with gap reduction. Optimization Methods and Software, 2004, 19, 507-525.	2.4	24
68	The semismooth Newton method for the solution of quasi-variational inequalities. Computational Optimization and Applications, 2015, 62, 85-109.	1.6	23
69	A Class of Newton-Type methods for equality and inequality constrained optimization. Optimization Methods and Software, 1995, 5, 173-198.	2.4	22
70	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
71	$\sup_{x \in C} \langle \lambda, x \rangle$ optimization reformulations of the generalized Nash equilibrium problem. Optimization Methods and Software, 2008, 23, 953-973.	2.4	20
72	Nonsmooth optimization reformulations characterizing all solutions of jointly convex generalized Nash equilibrium problems. Computational Optimization and Applications, 2011, 50, 23-48.	1.6	18

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73	On the Identification of Zero Variables in an Interior-Point Framework. <i>SIAM Journal on Optimization</i> , 2000, 10, 1058-1078.	2.0	17
74	A direct proof for M-stationarity under MPEC-GCQ for mathematical programs with equilibrium constraints. , 2006, , 111-122.		17
75	Generalized Newton's method based on graphical derivatives. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2012, 75, 1324-1340.	1.1	16
76	Gradient Consistency for Integral-convolution Smoothing Functions. <i>Set-Valued and Variational Analysis</i> , 2013, 21, 359-376.	1.1	16
77	Relaxation schemes for mathematical programmes with switching constraints. <i>Optimization Methods and Software</i> , 2019, , 1-36.	2.4	16
78	Formulation and Numerical Solution of Nash Equilibrium Multiobjective Elliptic Control Problems. <i>SIAM Journal on Control and Optimization</i> , 2013, 51, 718-744.	2.1	15
79	Smoothness properties of a regularized gap function for quasi-variational inequalities. <i>Optimization Methods and Software</i> , 2014, 29, 720-750.	2.4	15
80	Globalized inexact proximal Newton-type methods for nonconvex composite functions. <i>Computational Optimization and Applications</i> , 2021, 78, 377-410.	1.6	14
81	The semismooth Newton method for the solution of reactive transport problems including mineral precipitation-dissolution reactions. <i>Computational Optimization and Applications</i> , 2011, 50, 193-221.	1.6	13
82	On a relaxation method for mathematical programs with vanishing constraints. <i>GAMM Mitteilungen</i> , 2012, 35, 110-130.	5.5	13
83	Mathematical programs with vanishing constraints: a new regularization approach with strong convergence properties. <i>Optimization</i> , 2012, 61, 619-636.	1.7	13
84	New Constraint Qualifications for Optimization Problems in Banach Spaces Based on Asymptotic KKT Conditions. <i>SIAM Journal on Optimization</i> , 2020, 30, 2956-2982.	2.0	13
85	Sequential optimality conditions for cardinality-constrained optimization problems with applications. <i>Computational Optimization and Applications</i> , 2021, 80, 185-211.	1.6	13
86	A globalized Newton method for the computation of normalized Nash equilibria. <i>Journal of Global Optimization</i> , 2013, 56, 327-340.	1.8	12
87	Quasi-Variational Inequalities in Banach Spaces: Theory and Augmented Lagrangian Methods. <i>SIAM Journal on Optimization</i> , 2019, 29, 3174-3200.	2.0	12
88	Augmented Lagrangian and exact penalty methods for quasi-variational inequalities. <i>Computational Optimization and Applications</i> , 2018, 69, 801-824.	1.6	11
89	An Augmented Lagrangian Method for Cardinality-Constrained Optimization Problems. <i>Journal of Optimization Theory and Applications</i> , 2021, 189, 793-813.	1.5	11
90	On the multiplier-penalty-approach for quasi-variational inequalities. <i>Mathematical Programming</i> , 2016, 160, 33-63.	2.4	10

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91	On Newton's Method for the Fermat-Weber Location Problem. <i>Journal of Optimization Theory and Applications</i> , 2016, 170, 107-118.	1.5	10
92	The Multiplier-Penalty Method for Generalized Nash Equilibrium Problems in Banach Spaces. <i>SIAM Journal on Optimization</i> , 2019, 29, 767-793.	2.0	10
93	Local and Global Analysis of Multiplier Methods for Constrained Optimization in Banach Spaces. <i>SIAM Journal on Control and Optimization</i> , 2019, 57, 3694-3722.	2.1	10
94	On Error Bounds and Multiplier Methods for Variational Problems in Banach Spaces. <i>SIAM Journal on Control and Optimization</i> , 2018, 56, 1716-1738.	2.1	9
95	An inexact QP-based method for nonlinear complementarity problems. <i>Numerische Mathematik</i> , 1998, 80, 557-577.	1.9	8
96	Convergence properties of the inexact Lin-Fukushima relaxation method for mathematical programs with complementarity constraints. <i>Computational Optimization and Applications</i> , 2014, 59, 249-262.	1.6	8
97	A Distributed Regularized Jacobi-Type ADMM-Method for Generalized Nash Equilibrium Problems in Hilbert Spaces. <i>Numerical Functional Analysis and Optimization</i> , 2018, 39, 1316-1349.	1.4	8
98	Regularized Jacobi-type ADMM-methods for a class of separable convex optimization problems in Hilbert spaces. <i>Computational Optimization and Applications</i> , 2019, 73, 755-790.	1.6	8
99	Title is missing!. <i>Computational Optimization and Applications</i> , 2002, 23, 299-320.	1.6	7
100	On a Smooth Dual Gap Function for a Class of Quasi-Variational Inequalities. <i>Journal of Optimization Theory and Applications</i> , 2014, 163, 413-438.	1.5	7
101	On differentiability properties of player convex generalized Nash equilibrium problems. <i>Optimization</i> , 2015, 64, 365-388.	1.7	7
102	Improved local convergence results for augmented Lagrangian methods in \mathbb{R}^2 -cone reducible constrained optimization. <i>Mathematical Programming</i> , 2019, 177, 425-438.	2.4	7
103	ADMM-Type Methods for Generalized Nash Equilibrium Problems in Hilbert Spaces. <i>SIAM Journal on Optimization</i> , 2021, 31, 377-403.	2.0	7
104	Improved convergence properties of the Lin-Fukushima-Regularization method for mathematical programs with complementarity constraints. <i>Numerical Algebra, Control and Optimization</i> , 2011, 1, 49-60.	1.6	6
105	On the Solution of Linear Programs by Jacobian Smoothing Methods. <i>Annals of Operations Research</i> , 2001, 103, 49-70.	4.1	5
106	Lottery Versus All-Pay Auction Contests – A Revenue Dominance Theorem. <i>SSRN Electronic Journal</i> , 2012, , .	0.4	5
107	Bounds for the extremal eigenvalues of a class of symmetric tridiagonal matrices with applications. <i>Linear Algebra and Its Applications</i> , 2012, 436, 1837-1849.	0.9	2
108	On a Smooth Dual Gap Function for a Class of Player Convex Generalized Nash Equilibrium Problems. <i>Journal of Optimization Theory and Applications</i> , 2015, 166, 659-685.	1.5	2

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109	A generalized proximal-point method for convex optimization problems in Hilbert spaces. Optimization, 2017, 66, 1667-1676.	1.7	2
110	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