

Yoshihiro Kanno

List of Publications by Year in descending order

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papers

1,553
citations

279798

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34
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101
all docs

101
docs citations

101
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated proximal gradient method for bi-modulus static elasticity. Optimization and Engineering, 2022, 23, 453-477.	2.4	7
2	PRIMAL-DUAL ALGORITHM FOR QUASI-STATIC CONTACT PROBLEM WITH COULOMB'S FRICTION. Journal of the Operations Research Society of Japan, 2022, 65, 1-22.	0.2	1
3	A kernel method for learning constitutive relation in data-driven computational elasticity. Japan Journal of Industrial and Applied Mathematics, 2021, 38, 39-77.	0.9	16
4	Alternating minimization for data-driven computational elasticity from experimental data: kernel method for learning constitutive manifold. Theoretical and Applied Mechanics Letters, 2021, 11, 100289.	2.8	1
5	Accelerated projected gradient method with adaptive step size for compliance minimization problem. JSIAM Letters, 2021, 13, 33-36.	0.5	5
6	An accelerated Uzawa method for application to frictionless contact problem. Optimization Letters, 2020, 14, 1845-1854.	1.6	4
7	Exploiting Lagrange duality for topology optimization with frictionless unilateral contact. Japan Journal of Industrial and Applied Mathematics, 2020, 37, 25-48.	0.9	1
8	Numerical simulation of base-isolated buildings in collisions with surrounding moat walls during earthquakes: a nonsmooth mechanics approach. Optimization and Engineering, 2020, 21, 1423-1457.	2.4	2
9	A note on a family of proximal gradient methods for quasi-static incremental problems in elastoplastic analysis. Theoretical and Applied Mechanics Letters, 2020, 10, 315-320.	2.8	4
10	On three concepts in robust design optimization: absolute robustness, relative robustness, and less variance. Structural and Multidisciplinary Optimization, 2020, 62, 979-1000.	3.5	22
11	Dimensionality reduction enhances data-driven reliability-based design optimize. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2020, 14, JAMDSM0008-JAMDSM0008.	0.7	2
12	Robust optimization of structures subjected to frictionless unilateral contact with uncertain initial gaps. Mechanical Engineering Letters, 2020, 6, 20-00224-20-00224.	0.6	0
13	A NOTE ON ACCELERATED PROXIMAL GRADIENT METHOD FOR ELASTOPLASTIC ANALYSIS WITH TRESCA YIELD CRITERION. Journal of the Operations Research Society of Japan, 2020, 63, 78-92.	0.2	5
14	A data-driven approach to non-parametric reliability-based design optimization of structures with uncertain load. Structural and Multidisciplinary Optimization, 2019, 60, 83-97.	3.5	14
15	Mixed-integer programming formulation of a data-driven solver in computational elasticity. Optimization Letters, 2019, 13, 1505-1514.	1.6	28
16	Alternating Direction Method of Multipliers as Simple Heuristic for Topology Optimization of a Truss With Uniformed Member Cross Sections. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	2
17	Intrinsic Formulation and Lagrange Duality for Elastic Cable Networks with Geometrical Nonlinearity. Journal of Elasticity, 2019, 134, 193-217.	1.9	0
18	Group theoretic approach to large-deformation property of three-dimensional bar-hinge mechanism. Japan Journal of Industrial and Applied Mathematics, 2019, 36, 177-208.	0.9	2

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19	A Heuristic Method Using Hessian Matrix for Fast Flow Topology Optimization. Journal of Optimization Theory and Applications, 2019, 180, 671-681.	1.5	4
20	APPLICATION OF ACCELERATED GRADIENT METHOD TO EQUILIBRIUM ANALYSIS OF TRUSSES WITH NONLINEAR ELASTIC MATERIALS. Journal of Structural and Construction Engineering, 2019, 84, 1223-1230.	0.5	3
21	Nonlinear prediction using radial basis function network incorporating coordinate transformation. Mechanical Engineering Letters, 2019, 5, 18-00517-18-00517.	0.6	1
22	Alternating direction method of multipliers as a simple effective heuristic for mixed-integer nonlinear optimization. Structural and Multidisciplinary Optimization, 2018, 58, 1291-1295.	3.5	10
23	Alternating direction method of multipliers for truss topology optimization with limited number of nodes: a cardinality-constrained second-order cone programming approach. Optimization and Engineering, 2018, 19, 327-358.	2.4	8
24	Accelerated proximal gradient method for elastoplastic analysis with von Mises yield criterion. Japan Journal of Industrial and Applied Mathematics, 2018, 35, 1-32.	0.9	11
25	Data-driven computing in elasticity via kernel regression. Theoretical and Applied Mechanics Letters, 2018, 8, 361-365.	2.8	15
26	GLOBAL TOPOLOGY OPTIMIZATION OF STRUCTURAL FRAMES WITH UPPER BOUNDS FOR MEMBER LENGTHS AND NUMBER OF JOINTS. Journal of Structural and Construction Engineering, 2018, 83, 451-458.	0.5	0
27	Second-Order Cone Programming Approach to Design of Linkage Mechanisms With Arbitrarily Inclined Hinges. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	2
28	Simple heuristic for data-driven computational elasticity with material data involving noise and outliers: a local robust regression approach. Japan Journal of Industrial and Applied Mathematics, 2018, 35, 1085-1101.	0.9	21
29	Robust truss topology optimization via semidefinite programming with complementarity constraints: a difference-of-convex programming approach. Computational Optimization and Applications, 2018, 71, 403-433.	1.6	14
30	A note on truss topology optimization under self-weight load: mixed-integer second-order cone programming approach. Structural and Multidisciplinary Optimization, 2017, 56, 221-226.	3.5	12
31	Robustness of SDOF elastoplastic structure subjected to double-impulse input under simultaneous uncertainties of yield deformation and stiffness. International Journal of Non-Linear Mechanics, 2017, 91, 151-162.	2.6	4
32	Structural design for earthquake resilience: Info-gap management of uncertainty. Structural Safety, 2017, 69, 23-33.	5.3	7
33	Topology optimization method for interior flow based on transient information of the lattice Boltzmann method with a level-set function. Japan Journal of Industrial and Applied Mathematics, 2017, 34, 611-632.	0.9	8
34	Redundancy Optimization of Finite-Dimensional Structures: Concept and Derivative-Free Algorithm. Journal of Structural Engineering, 2017, 143, .	3.4	12
35	Mixed-integer second-order cone programming for truss topology optimization with self-weight load and limitation on number of nodes. , 2017, , .		1
36	Robustness Evaluation of Elastoplastic Base-Isolated High-Rise Buildings Subjected to Critical Double Impulse. Frontiers in Built Environment, 2017, 3, .	2.3	13

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37	Relaxation approach to topology optimization of frame structure under frequency constraint. Structural and Multidisciplinary Optimization, 2016, 53, 731-744.	3.5	13
38	A note on formulations of static shakedown analysis with bounded kinematic hardening. Mechanics Research Communications, 2016, 74, 57-59.	1.8	5
39	Robustness analysis of elastoplastic structure subjected to double impulse. Journal of Sound and Vibration, 2016, 383, 309-323.	3.9	5
40	Fast local convergence for flow topology optimization using the lattice Boltzmann method with a modified Newton method. Transactions of the JSME (in Japanese), 2016, 82, 15-00337-15-00337.	0.2	0
41	A fast first-order optimization approach to elastoplastic analysis of skeletal structures. Optimization and Engineering, 2016, 17, 861-896.	2.4	13
42	Ellipsoidal load-domain shakedown analysis with von Mises yield criterion: A robust optimization approach. International Journal for Numerical Methods in Engineering, 2016, 107, 1136-1144.	2.8	6
43	Mixed-integer second-order cone programming for global optimization of compliance of frame structure with discrete design variables. Structural and Multidisciplinary Optimization, 2016, 54, 301-316.	3.5	19
44	Global optimization of trusses with constraints on number of different cross-sections: a mixed-integer second-order cone programming approach. Computational Optimization and Applications, 2016, 63, 203-236.	1.6	17
45	A NOTE ON FORMULATIONS OF ROBUST COMPLIANCE OPTIMIZATION UNDER UNCERTAIN LOADS. Journal of Structural and Construction Engineering, 2015, 80, 601-607.	0.5	2
46	A flow topology optimization method for steady state flow using transient information of flow field solved by lattice Boltzmann method. Structural and Multidisciplinary Optimization, 2015, 51, 159-172.	3.5	17
47	Optimal design of periodic frame structures with negative thermal expansion via mixed integer programming. Optimization and Engineering, 2015, 16, 767-809.	2.4	25
48	A semidefinite programming approach to robust truss topology optimization under uncertainty in locations of nodes. Structural and Multidisciplinary Optimization, 2015, 51, 439-461.	3.5	20
49	3507 Avoiding gray-scale problems and improving convergence properties by using Newton method in flow topology optimization. The Proceedings of Design & Systems Conference, 2015, 2015.25, _3507-1_-_3507-8_.	0.0	0
50	A mixed integer programming approach to designing periodic frame structures with negative Poisson's ratio. Optimization and Engineering, 2014, 15, 773-800.	2.4	26
51	Linear programming approach to design of spatial link mechanism with partially rigid joints. Structural and Multidisciplinary Optimization, 2014, 50, 945-956.	3.5	12
52	Damper placement optimization in a shear building model with discrete design variables: a mixed-integer second-order cone programming approach. Earthquake Engineering and Structural Dynamics, 2013, 42, 1657-1676.	4.4	29
53	Exploring new tensegrity structures via mixed integer programming. Structural and Multidisciplinary Optimization, 2013, 48, 95-114.	3.5	33
54	Topology optimization of tensegrity structures under compliance constraint: a mixed integer linear programming approach. Optimization and Engineering, 2013, 14, 61-96.	2.4	44

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55	Worst-case load in plastic limit analysis of frame structures. Journal of Mechanics of Materials and Structures, 2013, 8, 415-439.	0.6	0
56	ANALYSIS OF STABILITY AND MECHANISM OF FRAMES WITH PARTIALLY RIGID CONNECTIONS. Journal of Structural and Construction Engineering, 2013, 78, 791-798.	0.5	7
57	TOPOLOGY OPTIMIZATION OF TENSEGRITY STRUCTURES UNDER SELF-WEIGHT LOADS. Journal of the Operations Research Society of Japan, 2012, 55, 125-145.	0.2	23
58	ROBUSTNESS ANALYSIS OF STRUCTURES UNDER COMPLIANCE CONSTRAINT. Journal of Structural and Construction Engineering, 2012, 77, 27-33.	0.5	0
59	Second-order cone programming with warm start for elastoplastic analysis with von Mises yield criterion. Optimization and Engineering, 2012, 13, 181-218.	2.4	32
60	Worst scenario detection in limit analysis of trusses against deficiency of structural components. Engineering Structures, 2012, 42, 33-42.	5.3	10
61	Worst-Scenario of Deficiency of Structural Elements in Plastic Limit Analysis. , 2012, , .		0
62	AN IMPLICIT FORMULATION OF MATHEMATICAL PROGRAM WITH COMPLEMENTARITY CONSTRAINTS FOR APPLICATION TO ROBUST STRUCTURAL OPTIMIZATION. Journal of the Operations Research Society of Japan, 2011, 54, 65-85.	0.2	3
63	Non-uniqueness and symmetry of optimal topology of a shell for minimum compliance. Structural and Multidisciplinary Optimization, 2011, 43, 459-471.	3.5	9
64	A non-interior implicit smoothing approach to complementarity problems for frictionless contacts. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1176-1185.	6.6	12
65	Redundancy and Robustness, or When Is Redundancy Redundant?. Journal of Structural Engineering, 2011, 137, 935-945.	3.4	42
66	Dynamic Steady-State Analysis of Structures under Uncertain Harmonic Loads via Semidefinite Program. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2011, , 99-112.	0.2	0
67	Enumeration of all wedged equilibrium configurations in contact problem with Coulomb friction. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1202-1215.	6.6	4
68	A numerical algorithm for block-diagonal decomposition of matrix \mathbb{H}^* -algebras with application to semidefinite programming. Japan Journal of Industrial and Applied Mathematics, 2010, 27, 125-160.	0.9	56
69	Global optimization of robust truss topology via mixed integer semidefinite programming. Optimization and Engineering, 2010, 11, 355-379.	2.4	34
70	Combined interior-point method and semismooth Newton method for frictionless contact problems. International Journal for Numerical Methods in Engineering, 2010, 81, 701-727.	2.8	6
71	A mixed integer programming for robust truss topology optimization with stress constraints. International Journal for Numerical Methods in Engineering, 2010, 83, 1675-1699.	2.8	39
72	Topology design of tensegrity structures via mixed integer programming. International Journal of Solids and Structures, 2010, 47, 571-579.	2.7	56

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73	Optimization-based stability analysis of structures under unilateral constraints. International Journal for Numerical Methods in Engineering, 2009, 77, 90-125.	2.8	6
74	Semidefinite programming for dynamic steady-state analysis of structures under uncertain harmonic loads. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3239-3261.	6.6	7
75	A Practical Variant of the Semismooth Newton Method for Frictionless Contact Problems. Journal of Computational Science and Technology, 2009, 3, 54-65.	0.4	0
76	Semidefinite programming for uncertain linear equations in static analysis of structures. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 102-115.	6.6	13
77	Stability analysis of cable-bar structures by inverse-power method for eigenvalue analysis with penalization. International Journal of Solids and Structures, 2008, 45, 4264-4273.	2.7	3
78	Ellipsoidal bounds for static response of framed structures against interactive uncertainties. Interaction and Multiscale Mechanics, 2008, 1, 103-121.	0.4	2
79	Robustness analysis of structures based on plastic limit analysis with uncertain loads. Journal of Mechanics of Materials and Structures, 2008, 3, 213-241.	0.6	10
80	Worst case plastic limit analysis of trusses under uncertain loads via mixed 0-1 programming. Journal of Mechanics of Materials and Structures, 2007, 2, 245-273.	0.6	24
81	SEMIDEFINITE PROGRAMMING FOR STRUCTURAL OPTIMIZATION. , 2007, , 541-567.		0
82	Contact Analysis of Cable Networks by Using Second-Order Cone Programming. SIAM Journal of Scientific Computing, 2006, 27, 2032-2052.	2.8	11
83	Resonant behaviour of base-isolated high-rise buildings under long-period ground motions. Structural Design of Tall and Special Buildings, 2006, 15, 325-338.	1.9	107
84	A direct approach to design of geometry and forces of tensegrity systems. International Journal of Solids and Structures, 2006, 43, 2260-2278.	2.7	51
85	Robustness analysis of trusses with separable load and structural uncertainties. International Journal of Solids and Structures, 2006, 43, 2646-2669.	2.7	40
86	Confidence ellipsoids for static response of trusses with load and structural uncertainties. Computer Methods in Applied Mechanics and Engineering, 2006, 196, 393-403.	6.6	26
87	Sequential Semidefinite Program for Maximum Robustness Design of Structures under Load Uncertainty. Journal of Optimization Theory and Applications, 2006, 130, 265-287.	1.5	69
88	Arc-Length Method for Frictional Contact Problems Using Mathematical Programming with Complementarity Constraints. Journal of Optimization Theory and Applications, 2006, 131, 89-113.	1.5	4
89	Three-dimensional quasi-static frictional contact by using second-order cone linear complementarity problem. International Journal for Numerical Methods in Engineering, 2006, 65, 62-83.	2.8	53
90	Imperfection sensitivity of hilltop branching points of systems with dihedral group symmetry. International Journal of Non-Linear Mechanics, 2005, 40, 755-774.	2.6	10

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91	Minimum Principle of Complementary Energy for Nonlinear Elastic Cable Networks with Geometrical Nonlinearities. Journal of Optimization Theory and Applications, 2005, 126, 617-641.	1.5	8
92	APPROXIMATION ALGORITHM FOR ROBUSTNESS FUNCTIONS OF TRUSSES WITH UNCERTAIN STIFFNESS UNDER UNCERTAIN FORCES. Journal of Structural and Construction Engineering, 2005, 70, 53-60.	0.5	4
93	Minimum principle of complementary energy of cable networks by using second-order cone programming. International Journal of Solids and Structures, 2003, 40, 4437-4460.	2.7	22
94	Large-deformation and friction analysis of non-linear elastic cable networks by second-order cone programming. International Journal for Numerical Methods in Engineering, 2002, 55, 1079-1114.	2.8	35
95	Symmetricity of the solution of semidefinite programming. Structural and Multidisciplinary Optimization, 2002, 24, 225-232.	3.5	6
96	Necessary and sufficient conditions for global optimality of eigenvalue optimization problems. Structural and Multidisciplinary Optimization, 2001, 22, 248-252.	3.5	13
97	Group Symmetry in Interior-Point Methods for Semidefinite Program. Optimization and Engineering, 2001, 2, 293-320.	2.4	40
98	Semi-definite programming for topology optimization of trusses under multiple eigenvalue constraints. Computer Methods in Applied Mechanics and Engineering, 1999, 180, 203-217.	6.6	68
99	Structural reliability under uncertainty in moments: distributionally-robust reliability-based design optimization. Japan Journal of Industrial and Applied Mathematics, 0, , 1.	0.9	0