

Komei Fukuda

List of Publications by Year in descending order

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43
papers

1,930
citations

566801

15
h-index

288905

40
g-index

43
all docs

43
docs citations

43
times ranked

1115
citing authors

#	ARTICLE	IF	CITATIONS
1	Combinatorial redundancy detection. <i>Annals of Operations Research</i> , 2018, 265, 47-65.	2.6	6
2	Complete Enumeration of Small Realizable Oriented Matroids. <i>Discrete and Computational Geometry</i> , 2013, 49, 359-381.	0.4	16
3	Combinatorial characterizations of K-matrices. <i>Linear Algebra and Its Applications</i> , 2011, 434, 68-80.	0.4	1
4	A linear equation for Minkowski sums of polytopes relatively in general position. <i>European Journal of Combinatorics</i> , 2010, 31, 565-573.	0.5	2
5	Pivoting in Linear Complementarity: Two Polynomial-Time Cases. <i>Discrete and Computational Geometry</i> , 2009, 42, 187-205.	0.4	5
6	Every non-Euclidean oriented matroid admits a biquadratic final polynomial. <i>Combinatorica</i> , 2009, 29, 691-698.	0.6	1
7	The Holt-Klee condition for oriented matroids. <i>European Journal of Combinatorics</i> , 2009, 30, 1854-1867.	0.5	4
8	Multiple-symbol differential detection based on combinatorial geometry. <i>IEEE Transactions on Communications</i> , 2008, 56, 1596-1600.	4.9	15
9	Exact algorithms and software in optimization and polyhedral computation. , 2008, , .		10
10	f-Vectors of Minkowski Additions of Convex Polytopes. <i>Discrete and Computational Geometry</i> , 2007, 37, 503-516.	0.4	20
11	A case when the union of polytopes is convex. <i>Linear Algebra and Its Applications</i> , 2005, 397, 381-388.	0.4	2
12	Data Depth and Maximum Feasible Subsystems. , 2005, , 37-67.		10
13	From the zonotope construction to the Minkowski addition of convex polytopes. <i>Journal of Symbolic Computation</i> , 2004, 38, 1261-1272.	0.5	126
14	An Adaptive Algorithm for Vector Partitioning. <i>Journal of Global Optimization</i> , 2003, 25, 305-319.	1.1	9
15	On the Face Lattice of the Metric Polytope. <i>Lecture Notes in Computer Science</i> , 2003, , 118-128.	1.0	3
16	Combinatorial Generation of Small Point Configurations and Hyperplane Arrangements. <i>Algorithms and Combinatorics</i> , 2003, , 425-440.	0.6	10
17	A polynomial case of unconstrained zero-one quadratic optimization. <i>Mathematical Programming</i> , 2001, 91, 49-52.	1.6	54
18	Notes on acyclic orientations and the shelling lemma. <i>Theoretical Computer Science</i> , 2001, 263, 9-16.	0.5	7

#	ARTICLE	IF	CITATIONS
19	Convexity recognition of the union of polyhedra. Computational Geometry: Theory and Applications, 2001, 18, 141-154.	0.3	76
20	Extended convex hull. Computational Geometry: Theory and Applications, 2001, 20, 13-23.	0.3	12
21	Cocircuit Graphs and Efficient Orientation Reconstruction in Oriented Matroids. European Journal of Combinatorics, 2001, 22, 587-600.	0.5	12
22	Exact Volume Computation for Polytopes: A Practical Study. , 2000, , 131-154.		97
23	Optimization over k -set Polytopes and Efficient k -set Enumeration. Lecture Notes in Computer Science, 1999, , 1-12.	1.0	11
24	Isolating points by lines in the plane. Journal of Geometry, 1998, 62, 48-65.	0.1	7
25	EP theorems and linear complementarity problems. Discrete Applied Mathematics, 1998, 84, 107-119.	0.5	12
26	Criss-cross methods: A fresh view on pivot algorithms. Mathematical Programming, 1997, 79, 369-395.	1.6	29
27	Analysis of backtrack algorithms for listing all vertices and all faces of a convex polyhedron. Computational Geometry: Theory and Applications, 1997, 8, 1-12.	0.3	64
28	Double description method revisited. Lecture Notes in Computer Science, 1996, , 91-111.	1.0	232
29	Reverse search for enumeration. Discrete Applied Mathematics, 1996, 65, 21-46.	0.5	518
30	Finding all common bases in two matroids. Discrete Applied Mathematics, 1995, 56, 231-243.	0.5	1
31	On extremal behaviors of Murty's least index method. Mathematical Programming, 1994, 64, 365-370.	1.6	12
32	Combinatorial face enumeration in convex polytopes. Computational Geometry: Theory and Applications, 1994, 4, 191-198.	0.3	28
33	Oriented Matroids and Combinatorial Manifolds. European Journal of Combinatorics, 1993, 14, 9-15.	0.5	14
34	The inequicut cone. Discrete Mathematics, 1993, 119, 21-48.	0.4	10
35	Antipodal graphs and oriented matroids. Discrete Mathematics, 1993, 111, 245-256.	0.4	27
36	A theorem on the average number of subfaces in arrangements and oriented matroids. Geometriae Dedicata, 1993, 47, 129-142.	0.1	4

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37	LINEAR COMPLEMENTARITY AND ORIENTED MATROIDS. Journal of the Operations Research Society of Japan, 1992, 35, 45-61.	0.3	15
38	A pivoting algorithm for convex hulls and vertex enumeration of arrangements and polyhedra. Discrete and Computational Geometry, 1992, 8, 295-313.	0.4	360
39	Finding all minimum-cost perfect matchings in Bipartite graphs. Networks, 1992, 22, 461-468.	1.6	31
40	Combinatorial face enumeration in arrangements and oriented matroids. Discrete Applied Mathematics, 1991, 31, 141-149.	0.5	18
41	Bounding the number of k-faces in arrangements of hyperplanes. Discrete Applied Mathematics, 1991, 31, 151-165.	0.5	10
42	A basis enumeration algorithm for linear systems with geometric applications. Applied Mathematics Letters, 1991, 4, 39-42.	1.5	9
43	On the finiteness of the criss-cross method. European Journal of Operational Research, 1991, 52, 119-124.	3.5	20