Komei Fukuda

List of Publications by Year
in descending order

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	Reverse search for enumeration. Discrete Applied Mathematics, 1996, 65, 21-46.	0.5	518
2	A pivoting algorithm for convex hulls and vertex enumeration of arrangements and polyhedra. Discrete and Computational Geometry, 1992, 8, 295-313.	0.4	360
3	Double description method revisited. Lecture Notes in Computer Science, 1996, , 91-111.	1.0	232
4	From the zonotope construction to the Minkowski addition of convex polytopes. Journal of Symbolic Computation, 2004, 38, 1261-1272.	0.5	126
5	Exact Volume Computation for Polytopes: A Practical Study. , 2000, , 131-154.		97
6	Convexity recognition of the union of polyhedra. Computational Geometry: Theory and Applications, 2001, 18, 141-154.	0.3	76
7	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
8	A polynomial case of unconstrained zero-one quadratic optimization. Mathematical Programming, 2001, 91, 49-52.	1.6	54
9	Finding all minimum-cost perfect matchings in Bipartite graphs. Networks, 1992, 22, 461-468.	1.6	31
10	Criss-cross methods: A fresh view on pivot algorithms. Mathematical Programming, 1997, 79, 369-395.	1.6	29
11	Combinatorial face enumeration in convex polytopes. Computational Geometry: Theory and Applications, 1994, 4, 191-198.	0.3	28
12	Antipodal graphs and oriented matroids. Discrete Mathematics, 1993, 111, 245-256.	0.4	27
13	On the finiteness of the criss-cross method. European Journal of Operational Research, 1991, 52, 119-124.	3.5	20
14	f-Vectors of Minkowski Additions of Convex Polytopes. Discrete and Computational Geometry, 2007, 37, 503-516.	0.4	20
15	Combinatorial face enumeration in arrangements and oriented matroids. Discrete Applied Mathematics, 1991, 31, 141-149.	0.5	18
16	Complete Enumeration of Small Realizable Oriented Matroids. Discrete and Computational Geometry, 2013, 49, 359-381.	0.4	16
17	LINEAR COMPLEMENTARITY AND ORIENTED MATROIDS. Journal of the Operations Research Society of Japan, 1992, 35, 45-61.	0.3	15
18	Multiple-symbol differential detection based on combinatorial geometry. IEEE Transactions on Communications, 2008, 56, 1596-1600.	4.9	15

#	Article	IF	Citations
19	Oriented Matroids and Combinatorial Manifolds. European Journal of Combinatorics, 1993, 14, 9-15.	0.5	14
20	On extremal behaviors of Murty's least index method. Mathematical Programming, 1994, 64, 365-370.	1.6	12
21	EP theorems and linear complementarity problems. Discrete Applied Mathematics, 1998, 84, 107-119.	0.5	12
22	Extended convex hull. Computational Geometry: Theory and Applications, 2001, 20, 13-23.	0.3	12
23	Cocircuit Graphs and Efficient Orientation Reconstruction in Oriented Matroids. European Journal of Combinatorics, 2001, 22, 587-600.	0.5	12
24	Optimization over k-set Polytopes and Efficient k-set Enumeration. Lecture Notes in Computer Science, 1999, , 1-12.	1.0	11
25	Bounding the number of k-faces in arrangements of hyperplanes. Discrete Applied Mathematics, 1991, 31, 151-165.	0.5	10
26	The inequicut cone. Discrete Mathematics, 1993, 119, 21-48.	0.4	10
27	Data Depth and Maximum Feasible Subsystems. , 2005, , 37-67.		10
28	Exact algorithms and software in optimization and polyhedral computation. , 2008, , .		10
29	Combinatorial Generation of Small Point Configurations and Hyperplane Arrangements. Algorithms and Combinatorics, 2003, , 425-440.	0.6	10
30	A basis enumeration algorithm for linear systems with geometric applications. Applied Mathematics Letters, 1991, 4, 39-42.	1.5	9
31	An Adaptive Algorithm for Vector Partitioning. Journal of Global Optimization, 2003, 25, 305-319.	1.1	9
32	Isolating points by lines in the plane. Journal of Geometry, 1998, 62, 48-65.	0.1	7
33	Notes on acyclic orientations and the shelling lemma. Theoretical Computer Science, 2001, 263, 9-16.	0.5	7
34	Combinatorial redundancy detection. Annals of Operations Research, 2018, 265, 47-65.	2.6	6
35	Pivoting in Linear Complementarity: TwoÂPolynomial-Time Cases. Discrete and Computational Geometry, 2009, 42, 187-205.	0.4	5
36	A theorem on the average number of subfaces in arrangements and oriented matroids. Geometriae Dedicata, 1993, 47, 129-142.	0.1	4

#	Article	IF	Citations
37	The Holt–Klee condition for oriented matroids. European Journal of Combinatorics, 2009, 30, 1854-1867.	0.5	4
38	On the Face Lattice of the Metric Polytope. Lecture Notes in Computer Science, 2003, , 118-128.	1.0	3
39	A case when the union of polytopes is convex. Linear Algebra and Its Applications, 2005, 397, 381-388.	0.4	2
40	A linear equation for Minkowski sums of polytopes relatively in general position. European Journal of Combinatorics, 2010, 31, 565-573.	0.5	2
41	Finding all common bases in two matroids. Discrete Applied Mathematics, 1995, 56, 231-243.	0.5	1
42	Every non-Euclidean oriented matroid admits a biquadratic final polynomial. Combinatorica, 2009, 29, 691-698.	0.6	1
43	Combinatorial characterizations of K-matrices. Linear Algebra and Its Applications, 2011, 434, 68-80.	0.4	1