

Bernard Chazelle

List of Publications by Year in descending order

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45
papers

4,477
citations

249298

26
h-index

406436

35
g-index

45
all docs

45
docs citations

45
times ranked

1836
citing authors

#	ARTICLE	IF	CITATIONS
1	Computing Hereditary Convex Structures. <i>Discrete and Computational Geometry</i> , 2011, 45, 796-823.	0.4	5
2	Faster dimension reduction. <i>Communications of the ACM</i> , 2010, 53, 97-104.	3.3	276
3	Computing hereditary convex structures. , 2009, , .		8
4	The Fast Johnson-Lindenstrauss Transform and Approximate Nearest Neighbors. <i>SIAM Journal on Computing</i> , 2009, 39, 302-322.	0.8	239
5	Lower bounds for intersection searching and fractional cascading in higher dimension. <i>Journal of Computer and System Sciences</i> , 2004, 68, 269-284.	0.9	7
6	Splitting a Delaunay Triangulation in Linear Time. <i>Lecture Notes in Computer Science</i> , 2001, , 312-320.	1.0	0
7	Irregularities of Distribution, Derandomization, and Complexity Theory. <i>Lecture Notes in Computer Science</i> , 2000, , 46-54.	1.0	0
8	Product Range Spaces, Sensitive Sampling, and Derandomization. <i>SIAM Journal on Computing</i> , 1999, 28, 1552-1575.	0.8	45
9	The Discrepancy Method. <i>Lecture Notes in Computer Science</i> , 1998, , 1-3.	1.0	40
10	Strategies for polyhedral surface decomposition: An experimental study. <i>Computational Geometry: Theory and Applications</i> , 1997, 7, 327-342.	0.3	87
11	Simplex range reporting on a pointer machine. <i>Computational Geometry: Theory and Applications</i> , 1996, 5, 237-247.	0.3	27
12	Derandomizing an output-sensitive convex hull algorithm in three dimensions. <i>Computational Geometry: Theory and Applications</i> , 1995, 5, 27-32.	0.3	32
13	Bounds on the size of tetrahedralizations. , 1994, , .		11
14	Algorithms for bichromatic line-segment problems and polyhedral terrains. <i>Algorithmica</i> , 1994, 11, 116-132.	1.0	76
15	An optimal convex hull algorithm in any fixed dimension. <i>Discrete and Computational Geometry</i> , 1993, 10, 377-409.	0.4	267
16	Cutting hyperplanes for divide-and-conquer. <i>Discrete and Computational Geometry</i> , 1993, 9, 145-158.	0.4	212
17	An optimal algorithm for intersecting line segments in the plane. <i>Journal of the ACM</i> , 1992, 39, 1-54.	1.8	250
18	Decomposing the boundary of a nonconvex polyhedron. <i>Lecture Notes in Computer Science</i> , 1992, , 364-375.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Lower bounds on the complexity of simplex range reporting on a pointer machine. Lecture Notes in Computer Science, 1992, , 439-449.	1.0	8
20	A singly exponential stratification scheme for real semi-algebraic varieties and its applications. Theoretical Computer Science, 1991, 84, 77-105.	0.5	103
21	Triangulating a simple polygon in linear time. Discrete and Computational Geometry, 1991, 6, 485-524.	0.4	443
22	Ray shooting in polygons using geodesic triangulations. Lecture Notes in Computer Science, 1991, , 661-673.	1.0	28
23	Computational geometry for the gourmet old fare and new dishes. Lecture Notes in Computer Science, 1991, , 686-696.	1.0	2
24	Triangulating a nonconvex polytope. Discrete and Computational Geometry, 1990, 5, 505-526.	0.4	81
25	An algorithm for generalized point location and its applications. Journal of Symbolic Computation, 1990, 10, 281-309.	0.5	28
26	Lower bounds for orthogonal range searching: I. The reporting case. Journal of the ACM, 1990, 37, 200-212.	1.8	118
27	A singly-exponential stratification scheme for real semi-algebraic varieties and its applications. Lecture Notes in Computer Science, 1989, , 179-193.	1.0	40
28	Visibility and intersection problems in plane geometry. Discrete and Computational Geometry, 1989, 4, 551-581.	0.4	150
29	A Functional Approach to Data Structures and Its Use in Multidimensional Searching. SIAM Journal on Computing, 1988, 17, 427-462.	0.8	272
30	Polytope range searching and integral geometry. , 1987, , .		12
31	Linear space data structures for two types of range search. Discrete and Computational Geometry, 1987, 2, 113-126.	0.4	28
32	Computing on a free tree via complexity-preserving mappings. Algorithmica, 1987, 2, 337-361.	1.0	73
33	Some techniques for geometric searching with implicit set representations. Acta Informatica, 1987, 24, 565-582.	0.5	7
34	Filtering Search: A New Approach to Query-Answering. SIAM Journal on Computing, 1986, 15, 703-724.	0.8	233
35	Fractional cascading: I. A data structuring technique. Algorithmica, 1986, 1, 133-162.	1.0	351
36	Fractional cascading: II. Applications. Algorithmica, 1986, 1, 163-191.	1.0	101

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37	Fractional cascading: A data structuring technique with geometric applications. , 1985, , 90-100.		12
38	The power of geometric duality. BIT Numerical Mathematics, 1985, 25, 76-90.	1.0	214
39	Parallel computational geometry. , 1985, , .		48
40	Optimal Convex Decompositions. Machine Intelligence and Pattern Recognition, 1985, , 63-133.	0.2	88
41	Convex Partitions of Polyhedra: A Lower Bound and Worst-Case Optimal Algorithm. SIAM Journal on Computing, 1984, 13, 488-507.	0.8	197
42	An improved algorithm for the fixed-radius neighbor problem. Information Processing Letters, 1983, 16, 193-198.	0.4	18
43	Filtering search: A new approach to query-answering. , 1983, , .		38
44	A theorem on polygon cutting with applications. , 1982, , .		164
45	Detection is easier than computation (Extended Abstract). , 1980, , .		31