Bernard Chazelle

List of Publications by Year
in descending order

31 papers	728 citations	840776 11 h-index	642732 23 g-index
32 all docs	32 docs citations	32 times ranked	486 citing authors

#	Article	IF	Citations
1	A Reflective Symmetry Descriptor for 3D Models. Algorithmica, 2004, 38, 201-225.	1.3	159
2	BOXTREE: A Hierarchical Representation for Surfaces in 3D. Computer Graphics Forum, 1996, 15, 387-396.	3.0	95
3	An Improved Algorithm for Constructing kth-Order Voronoi Diagrams. IEEE Transactions on Computers, 1987, C-36, 1349-1354.	3.4	63
4	The Total s-Energy of a Multiagent System. SIAM Journal on Control and Optimization, 2011, 49, 1680-1706.	2.1	58
5	An algorithm for segment-dragging and its implementation. Algorithmica, 1988, 3, 205-221.	1.3	48
6	TRIANGULATING DISJOINT JORDAN CHAINS. International Journal of Computational Geometry and Applications, 1994, 04, 475-481.	0.5	43
7	Inertial Hegselmann-Krause Systems. IEEE Transactions on Automatic Control, 2017, 62, 3905-3913.	5.7	39
8	Estimating the distance to a monotone function. Random Structures and Algorithms, 2007, 31, 371-383.	1.1	37
9	Noisy Hegselmann-Krause Systems: Phase Transition and the 2R-Conjecture. Journal of Statistical Physics, 2017, 166, 1209-1225.	1.2	33
10	The Convergence of Bird Flocking. Journal of the ACM, 2014, 61, 1-35.	2.2	27
11	Natural Algorithms. , 2009, , .		25
12	An Algorithmic Approach to Collective Behavior. Journal of Statistical Physics, 2015, 158, 514-548.	1.2	16
13	Polytope range searching and integral geometry. , 1987, , .		12
14	The Dynamics of Influence Systems. , 2012, , .		11
15	uKIN Combines New and Prior Information with Guided Network Propagation to Accurately Identify Disease Genes. Cell Systems, 2020, 10, 470-479.e3.	6.2	11
16	Diffusive Influence Systems. SIAM Journal on Computing, 2015, 44, 1403-1442.	1.0	9
17	PertInInt: An Integrative, Analytical Approach to Rapidly Uncover Cancer Driver Genes with Perturbed Interactions and Functionalities. Cell Systems, 2020, 11, 63-74.e7.	6.2	8
18	Some techniques for geometric searching with implicit set representations. Acta Informatica, 1987, 24, 565-582.	0.5	7

#	Article	IF	Citations
19	Computing Hereditary Convex Structures. Discrete and Computational Geometry, 2011, 45, 796-823.	0.6	5
20	COMPUTATIONAL GEOMETRY: A RETROSPECTIVE. Lecture Notes Series on Computing, 1995, , 22-46.	0.2	5
21	Inertial Hegselmann-Krause systems. , 2016, , .		4
22	Markov Incremental Constructions. Discrete and Computational Geometry, 2009, 42, 399-420.	0.6	3
23	On the Periodicity of Random Walks in Dynamic Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 1337-1343.	6.4	3
24	Algorithmic Renormalization for Network Dynamics. IEEE Transactions on Network Science and Engineering, 2015, 2, 1-16.	6.4	2
25	A Sharp Bound on the s-Energy and Its Applications to Averaging Systems. IEEE Transactions on Automatic Control, 2019, 64, 4385-4390.	5.7	2
26	The Power of Nonmonotonicity in Geometric Searching. Discrete and Computational Geometry, 2004, 31, 3-16.	0.6	1
27	Gaussian Learning-Without-Recall in a dynamic social network. , 2017, , .		1
28	Title is missing!. Theory of Computing, 2014, 10, 421-451.	0.5	1
29	Coding and Computing Join Forces. Science, 2007, 317, 1691-1692.	12.6	0
30	Data Structures on Event Graphs. Algorithmica, 2015, 71, 1007-1020.	1.3	0
31	Some Observations on Dynamic Random Walks and Network Renormalization. Lecture Notes in Computer Science, 2019, , 18-28.	1.3	0