

Pat Morin

List of Publications by Year in descending order

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139
papers

3,114
citations

331259

21
h-index

214527

47
g-index

146
all docs

146
docs citations

146
times ranked

1487
citing authors

#	ARTICLE	IF	CITATIONS
1	Clustered 3-colouring graphs of bounded degree. <i>Combinatorics Probability and Computing</i> , 2022, 31, 123-135.	0.8	7
2	Every Collinear Set in a Planar Graph is Free. <i>Discrete and Computational Geometry</i> , 2021, 65, 999-1027.	0.4	1
3	A Fast Algorithm for the Product Structure of Planar Graphs. <i>Algorithmica</i> , 2021, 83, 1544-1558.	1.0	3
4	Two Results on Layered Pathwidth and Linear Layouts. <i>Journal of Graph Algorithms and Applications</i> , 2021, 25, 43-57.	0.4	1
5	Approximating Maximum Diameter-Bounded Subgraph in Unit Disk Graphs. <i>Discrete and Computational Geometry</i> , 2021, 66, 1401-1414.	0.4	0
6	Minor-Closed Graph Classes with Bounded Layered Pathwidth. <i>SIAM Journal on Discrete Mathematics</i> , 2020, 34, 1693-1709.	0.4	2
7	Adjacency Labelling for Planar Graphs (and Beyond). , 2020, , .		7
8	Planar Graphs Have Bounded Queue-Number. <i>Journal of the ACM</i> , 2020, 67, 1-38.	1.8	37
9	Drawing Graphs as Spanners. <i>Lecture Notes in Computer Science</i> , 2020, , 310-324.	1.0	0
10	Planar Graphs have Bounded Queue-Number. , 2019, , .		20
11	Notes on growing a tree in a graph. <i>Random Structures and Algorithms</i> , 2019, 55, 290-312.	0.6	0
12	More Turán-Type Theorems for Triangles in Convex Point Sets. <i>Electronic Journal of Combinatorics</i> , 2019, 26, .	0.2	1
13	Every Collinear Set in a Planar Graph Is Free. , 2019, , 1521-1538.		2
14	Orthogonal Tree Decompositions of Graphs. <i>SIAM Journal on Discrete Mathematics</i> , 2018, 32, 839-863.	0.4	6
15	Spanning Trees in Multipartite Geometric Graphs. <i>Algorithmica</i> , 2018, 80, 3177-3191.	1.0	3
16	A note on interference in random networks. <i>Computational Geometry: Theory and Applications</i> , 2018, 67, 2-10.	0.3	1
17	EPG-representations with Small Grid-Size. <i>Lecture Notes in Computer Science</i> , 2018, , 184-196.	1.0	0
18	Anagram-Free Chromatic Number Is Not Pathwidth-Bounded. <i>Lecture Notes in Computer Science</i> , 2018, , 91-99.	1.0	1

#	ARTICLE	IF	CITATIONS
37	Approximating majority depth. Computational Geometry: Theory and Applications, 2013, 46, 1059-1064.	0.3	2
38	Layered Separators for Queue Layouts, 3D Graph Drawing and Nonrepetitive Coloring. , 2013, , .		7
39	Fast local searches and updates in bounded universes. Computational Geometry: Theory and Applications, 2013, 46, 181-189.	0.3	4
40	Absolute approximation of Tukey depth: Theory and experiments. Computational Geometry: Theory and Applications, 2013, 46, 566-573.	0.3	14
41	Oja centers and centers of gravity. Computational Geometry: Theory and Applications, 2013, 46, 140-147.	0.3	4
42	Robust geometric spanners. , 2013, , .		1
43	Robust Geometric Spanners. SIAM Journal on Computing, 2013, 42, 1720-1736.	0.8	5
44	A History of Distribution-Sensitive Data Structures. Lecture Notes in Computer Science, 2013, , 133-149.	1.0	4
45	The $\hat{1}$, 5-Graph is a Spanner. Lecture Notes in Computer Science, 2013, , 100-114.	1.0	4
46	Entropy, triangulation, and point location in planar subdivisions. ACM Transactions on Algorithms, 2012, 8, 1-18.	0.9	8
47	Succinct geometric indexes supporting point location queries. ACM Transactions on Algorithms, 2012, 8, 1-26.	0.9	6
48	GHOST CHIMNEYS. International Journal of Computational Geometry and Applications, 2012, 22, 207-214.	0.3	1
49	Memoryless routing in convex subdivisions: Random walks are optimal. Computational Geometry: Theory and Applications, 2012, 45, 178-185.	0.3	5
50	A distribution-sensitive dictionary with low space overhead. Journal of Discrete Algorithms, 2012, 10, 140-145.	0.7	0
51	Skip lift: A probabilistic alternative to redâ€™black trees. Journal of Discrete Algorithms, 2012, 14, 13-20.	0.7	4
52	Biased Range Trees. Algorithmica, 2012, 62, 21-37.	1.0	1
53	Algorithms for Marketing-Mix Optimization. Algorithmica, 2011, 60, 1004-1016.	1.0	0
54	Preprocessing Imprecise Points for Delaunay Triangulation: Simplified and Extended. Algorithmica, 2011, 61, 674-693.	1.0	22

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55	A generalized Winternitz Theorem. <i>Journal of Geometry</i> , 2011, 100, 29-35.	0.1	4
56	Randomized rendezvous with limited memory. <i>ACM Transactions on Algorithms</i> , 2011, 7, 1-12.	0.9	4
57	Common Unfoldings of Polyominoes and Polycubes. <i>Lecture Notes in Computer Science</i> , 2011, , 44-54.	1.0	8
58	Skip Lift: A Probabilistic Alternative to Red-Black Trees. <i>Lecture Notes in Computer Science</i> , 2011, , 226-237.	1.0	0
59	Sigma-local graphs. <i>Journal of Discrete Algorithms</i> , 2010, 8, 15-23.	0.7	4
60	Planar visibility. , 2010, , .		8
61	Coverage with k -Transmitters in the Presence of Obstacles. <i>Lecture Notes in Computer Science</i> , 2010, , 1-15.	1.0	2
62	On the expected maximum degree of Gabriel and Yao graphs. <i>Advances in Applied Probability</i> , 2009, 41, 1123-1140.	0.4	4
63	Clamshell Casting. <i>Algorithmica</i> , 2009, 55, 666-702.	1.0	0
64	A Polynomial Bound for Untangling Geometric Planar Graphs. <i>Discrete and Computational Geometry</i> , 2009, 42, 570-585.	0.4	17
65	Connectivity-preserving transformations of binary images. <i>Computer Vision and Image Understanding</i> , 2009, 113, 1027-1038.	3.0	3
66	Algorithms for optimal outlier removal. <i>Journal of Discrete Algorithms</i> , 2009, 7, 239-248.	0.7	19
67	Rotationally monotone polygons. <i>Computational Geometry: Theory and Applications</i> , 2009, 42, 471-483.	0.3	1
68	Spanners of Complete k -Partite Geometric Graphs. <i>SIAM Journal on Computing</i> , 2009, 38, 1803-1820.	0.8	0
69	A Distribution-Sensitive Dictionary with Low Space Overhead. <i>Lecture Notes in Computer Science</i> , 2009, , 110-118.	1.0	2
70	Succinct Orthogonal Range Search Structures on a Grid with Applications to Text Indexing. <i>Lecture Notes in Computer Science</i> , 2009, , 98-109.	1.0	49
71	Biased Range Trees. , 2009, , .		4
72	Succinct Geometric Indexes Supporting Point Location Queries. , 2009, , .		5

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73	On the expected maximum degree of Gabriel and Yao graphs. <i>Advances in Applied Probability</i> , 2009, 41, 1123-1140.	0.4	7
74	Delaunay Triangulation of Imprecise Points Simplified and Extended. <i>Lecture Notes in Computer Science</i> , 2009, , 131-143.	1.0	1
75	Computing the Detour and Spanning Ratio of Paths, Trees, and Cycles. , 2009, , 1-21.		0
76	On the false-positive rate of Bloom filters. <i>Information Processing Letters</i> , 2008, 108, 210-213.	0.4	127
77	Output-sensitive algorithms for Tukey depth and related problems. <i>Statistics and Computing</i> , 2008, 18, 259-266.	0.8	27
78	Computing the Detour and Spanning Ratio of Paths, Trees, and Cycles in 2D and 3D. <i>Discrete and Computational Geometry</i> , 2008, 39, 17-37.	0.4	28
79	A Characterization of the degree sequences of \mathbb{R} -trees. <i>Journal of Graph Theory</i> , 2008, 58, 191-209.	0.5	8
80	Realizing partitions respecting full and partial order information. <i>Journal of Discrete Algorithms</i> , 2008, 6, 51-58.	0.7	0
81	A Polynomial Bound for Untangling Geometric Planar Graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2008, 31, 213-218.	0.4	0
82	An optimal randomized algorithm for d-variate zonoid depth. <i>Computational Geometry: Theory and Applications</i> , 2008, 39, 229-235.	0.3	2
83	Algorithms for bivariate zonoid depth. <i>Computational Geometry: Theory and Applications</i> , 2008, 39, 2-13.	0.3	2
84	Edge-unfolding nested polyhedral bands. <i>Computational Geometry: Theory and Applications</i> , 2008, 39, 30-42.	0.3	6
85	Randomized Rendez-Vous with Limited Memory. , 2008, , 605-616.		24
86	Distinct Distances in Graph Drawings. <i>Electronic Journal of Combinatorics</i> , 2008, 15, .	0.2	9
87	Spanners of Complete k-Partite Geometric Graphs. , 2008, , 170-181.		1
88	Algorithms for Designing Clamshell Molds. <i>Computer-Aided Design and Applications</i> , 2007, 4, 1-10.	0.4	3
89	Simultaneous diagonal flips in plane triangulations. <i>Journal of Graph Theory</i> , 2007, 54, 307-330.	0.5	14
90	Space-efficient geometric divide-and-conquer algorithms. <i>Computational Geometry: Theory and Applications</i> , 2007, 37, 209-227.	0.3	24

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91	Reconfiguring Triangulations with Edge Flips and Point Moves. <i>Algorithmica</i> , 2007, 47, 367-378.	1.0	2
92	Geodesic Ham-Sandwich Cuts. <i>Discrete and Computational Geometry</i> , 2007, 37, 325-339.	0.4	9
93	A Characterization of the Degree Sequences of 2-Trees. , 2007, , .		0
94	Simultaneous diagonal flips in plane triangulations. , 2006, , .		5
95	Three-Dimensional 1-Bend Graph Drawings. , 2006, , 357-366.		0
96	The Maximum Number of Edges in a Three-Dimensional Grid-Drawing. , 2006, , 21-26.		0
97	Approximate Range Mode and Range Median Queries. <i>Lecture Notes in Computer Science</i> , 2005, , 377-388.	1.0	18
98	Guest Editorsâ€™ Foreword. <i>Algorithmica</i> , 2005, 42, 1-2.	1.0	0
99	Covering Things with Things. <i>Discrete and Computational Geometry</i> , 2005, 33, 717-729.	0.4	43
100	Output-Sensitive Algorithms for Computing Nearest-Neighbour Decision Boundaries. <i>Discrete and Computational Geometry</i> , 2005, 33, 593-604.	0.4	126
101	Layout of Graphs with Bounded Tree-Width. <i>SIAM Journal on Computing</i> , 2005, 34, 553-579.	0.8	84
102	Reconfiguring Triangulations with Edge Flips and Point Moves. <i>Lecture Notes in Computer Science</i> , 2005, , 1-11.	1.0	1
103	Geodesic ham-sandwich cuts. , 2004, , .		13
104	Testing the Quality of Manufactured Disks and Balls. <i>Algorithmica</i> , 2004, 38, 161-177.	1.0	6
105	Ordered theta graphs. <i>Computational Geometry: Theory and Applications</i> , 2004, 28, 11-18.	0.3	38
106	Space-efficient planar convex hull algorithms. <i>Theoretical Computer Science</i> , 2004, 321, 25-40.	0.5	38
107	Competitive online routing in geometric graphs. <i>Theoretical Computer Science</i> , 2004, 324, 273-288.	0.5	42
108	Packing two disks into a polygonal environment. <i>Journal of Discrete Algorithms</i> , 2004, 2, 373-380.	0.7	3

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109	The geometry of carpentry and joinery. <i>Discrete Applied Mathematics</i> , 2004, 144, 374-380.	0.5	1
110	On simplifying dot maps. <i>Computational Geometry: Theory and Applications</i> , 2004, 27, 43-62.	0.3	36
111	On Worst-Case Robin Hood Hashing. <i>SIAM Journal on Computing</i> , 2004, 33, 923-936.	0.8	10
112	Online Routing in Triangulations. <i>SIAM Journal on Computing</i> , 2004, 33, 937-951.	0.8	99
113	Improving Distance Based Geographic Location Techniques in Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2004, , 197-210.	1.0	20
114	The Maximum Number of Edges in a Three-Dimensional Grid-Drawing. <i>Journal of Graph Algorithms and Applications</i> , 2004, 8, 21-26.	0.4	18
115	Three-Dimensional 1-Bend Graph Drawings. <i>Journal of Graph Algorithms and Applications</i> , 2004, 8, 357-366.	0.4	4
116	Hash Tables. <i>Chapman & Hall/CRC Computer and Information Science Series</i> , 2004, , 9-1-9-19.	0.4	0
117	Asymmetric Communication Protocols via Hotlink Assignments. <i>Theory of Computing Systems</i> , 2003, 36, 655-661.	0.7	8
118	Cuckoo hashing: Further analysis. <i>Information Processing Letters</i> , 2003, 86, 215-219.	0.4	52
119	Fast approximations for sums of distances, clustering and the Fermat-Weber problem. <i>Computational Geometry: Theory and Applications</i> , 2003, 24, 135-146.	0.3	57
120	Translating a regular grid over a point set. <i>Computational Geometry: Theory and Applications</i> , 2003, 25, 21-34.	0.3	8
121	COMPUTING THE CENTER OF AREA OF A CONVEX POLYGON. <i>International Journal of Computational Geometry and Applications</i> , 2003, 13, 439-445.	0.3	5
122	Output-Sensitive Algorithms for Computing Nearest-Neighbour Decision Boundaries. <i>Lecture Notes in Computer Science</i> , 2003, , 451-461.	1.0	4
123	Range Mode and Range Median Queries on Lists and Trees. <i>Lecture Notes in Computer Science</i> , 2003, , 517-526.	1.0	12
124	ONLINE ROUTING IN CONVEX SUBDIVISIONS. <i>International Journal of Computational Geometry and Applications</i> , 2002, 12, 283-295.	0.3	31
125	AN IMPROVED ALGORITHM FOR SUBDIVISION TRAVERSAL WITHOUT EXTRA STORAGE. <i>International Journal of Computational Geometry and Applications</i> , 2002, 12, 297-308.	0.3	27
126	Path-Width and Three-Dimensional Straight-Line Grid Drawings of Graphs. <i>Lecture Notes in Computer Science</i> , 2002, , 42-53.	1.0	8

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127	Computing the Maximum Detour and Spanning Ratio of Planar Paths, Trees, and Cycles. Lecture Notes in Computer Science, 2002, , 250-261.	1.0	11
128	Covering Things with Things. Lecture Notes in Computer Science, 2002, , 662-674.	1.0	1
129	Convexifying polygons with simple projections. Information Processing Letters, 2001, 80, 81-86.	0.4	5
130	Routing with Guaranteed Delivery in Ad Hoc Wireless Networks. Wireless Networks, 2001, 7, 609-616.	2.0	871
131	The Grid Placement Problem. Lecture Notes in Computer Science, 2001, , 180-191.	1.0	5
132	Packing Two Disks into a Polygonal Environment. Lecture Notes in Computer Science, 2001, , 142-149.	1.0	1
133	An Improved Algorithm for Subdivision Traversal without Extra Storage. Lecture Notes in Computer Science, 2000, , 444-455.	1.0	4
134	Online Routing in Convex Subdivisions. Lecture Notes in Computer Science, 2000, , 47-59.	1.0	27
135	Routing with guaranteed delivery in ad hoc wireless networks. , 1999, , .		528
136	Online Routing in Triangulations. Lecture Notes in Computer Science, 1999, , 113-122.	1.0	80
137	Coarse grained parallel computing on heterogeneous systems. , 1998, , .		5
138	Testing the Quality of Manufactured Disks and Cylinders. Lecture Notes in Computer Science, 1998, , 130-138.	1.0	4
139	Stack-Number is Not Bounded by Queue-Number. Combinatorica, 0, , 1.	0.6	10