Takao Nishizeki

List of Publications by Year
in descending order

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116	2,517	279487	214527
papers	citations	23 h-index	47 g-index

129	129	129	897
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Arboricity and Subgraph Listing Algorithms. SIAM Journal on Computing, 1985, 14, 210-223.	0.8	467
2	Secret sharing scheme realizing general access structure. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1989, 72, 56-64.	0.1	250
3	A linear algorithm for embedding planar graphs using PQ-trees. Journal of Computer and System Sciences, 1985, 30, 54-76.	0.9	150
4	Drawing plane graphs nicely. Acta Informatica, 1985, 22, 187.	0.5	73
5	The hamiltonian cycle problem is linear-time solvable for 4-connected planar graphs. Journal of Algorithms, 1989, 10, 187-211.	0.9	69
6	On the 1.1 Edge-Coloring of Multigraphs. SIAM Journal on Discrete Mathematics, 1990, 3, 391-410.	0.4	66
7	The edge-disjoint paths problem is NP-complete for seriesâ€“parallel graphs. Discrete Applied Mathematics, 2001, 115, 177-186.	0.5	64
8	Algorithms for routing around a rectangle. Discrete Applied Mathematics, 1992, 40, 363-378.	0.5	57
9	A linear 5-coloring algorithm of planar graphs. Journal of Algorithms, 1981, 2, 317-327.	0.9	52
10	Lower bounds on the cardinality of the maximum matchings of planar graphs. Discrete Mathematics, 1979, 28, 255-267.	0.4	49
11	Planar Multicommodity Fows, Maximum Matchings and Negative Cycles. SIAM Journal on Computing, 1986, 15, 495-510.	0.8	43
12	A linear algorithm for bipartition of biconnected graphs. Information Processing Letters, 1990, 33, 227-231.	0.4	42
13	A better than â€œbest possibleâ€•algorithm to edge color multigraphs. Journal of Algorithms, 1986, 7, 79-104.	0.9	38
14	Rectangular grid drawings of plane graphs. Computational Geometry: Theory and Applications, 1998, 10, 203-220.	0.3	36
15	Edge-Coloring Partialk-Trees. Journal of Algorithms, 1996, 21, 598-617.	0.9	35
16	A linear-time algorithm for four-partitioning four-connected planar graphs. Information Processing Letters, 1997, 62, 315-322.	0.4	34
17	An Efficient Algorithm for Finding Multicommodity Flows in Planar Networks. SIAM Journal on Computing, 1985, 14, 289-302.	0.8	31
18	A Linear Algorithm for Bend-Optimal Orthogonal Drawings of Triconnected Cubic Plane Graphs. Journal of Graph Algorithms and Applications, 1999, 3, 31-62.	0.4	30

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19	Rectangular drawings of planar graphs. Journal of Algorithms, 2004, 50, 62-78.	0.9	28
20	Orthogonal Drawings of Plane Graphs Without Bends. Journal of Graph Algorithms and Applications, 2003, 7, 335-362.	0.4	27
21	PARTITIONING TREES OF SUPPLY AND DEMAND. International Journal of Foundations of Computer Science, 2005, 16, 803-827.	0.8	26
22	A LINEAR-TIME ALGORITHM TO FIND FOUR INDEPENDENT SPANNING TREES IN FOUR CONNECTED PLANAR GRAPHS. International Journal of Foundations of Computer Science, 1999, 10, 195-210.	0.8	24
23	CANONICAL DECOMPOSITION, REALIZER, SCHNYDER LABELING AND ORDERLY SPANNING TREES OF PLANE GRAPHS. International Journal of Foundations of Computer Science, 2005, 16, 117-141.	0.8	24
24	Approximability of partitioning graphs with supply and demand. Journal of Discrete Algorithms, 2008, 6, 627-650.	0.7	24
25	An Approximation Algorithm for the Maximum Independent Set Problem on Planar Graphs. SIAM Journal on Computing, 1982, 11, 663-675.	0.8	23
26	A theorem on paths in planar graphs. Journal of Graph Theory, 1986, 10, 449-450.	0.5	22
27	Box-Rectangular Drawings of Plane Graphs. Journal of Algorithms, 2000, 37, 363-398.	0.9	22
28	An approximation algorithm for the hamiltonian walk problem on maximal planar graphs. Discrete Applied Mathematics, 1983, 5, 211-222.	0.5	21
29	Improved edge-coloring algorithms for planar graphs. Journal of Algorithms, 1990, 11, 102-116.	0.9	19
30	Rectangular drawings of plane graphs without designated corners. Computational Geometry: Theory and Applications, 2002, 21, 121-138.	0.3	18
31	CONVEX DRAWINGS OF PLANE GRAPHS OF MINIMUM OUTER APICES. International Journal of Foundations of Computer Science, 2006, 17, 1115-1127.	0.8	18
32	An upper bound on the length of a Hamiltonian walk of a maximal planar graph. Journal of Graph Theory, 1980, 4, 315-336.	0.5	17
33	A Linear Algorithm for Edge-Coloring Seriesâ€“Parallel Multigraphs. Journal of Algorithms, 1996, 20, 174-201.	0.9	16
34	Algorithms for generalized vertex-rankings of partial k-trees. Theoretical Computer Science, 2000, 240, 407-427.	0.5	15
35	Partitioning a graph of bounded tree-width to connected subgraphs of almost uniform size. Journal of Discrete Algorithms, 2006, 4, 142-154.	0.7	15
36	INNER RECTANGULAR DRAWINGS OF PLANE GRAPHS. International Journal of Computational Geometry and Applications, 2006, 16, 249-270.	0.3	15

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37	SCHEDULING FILE TRANSFERS UNDER PORT AND CHANNEL CONSTRAINTS. International Journal of Foundations of Computer Science, 1993, 04, 101-115.	0.8	14
38	Edge-coloring algorithms. Lecture Notes in Computer Science, 1995, , 172-183.	1.0	14
39	Total Colorings Of Degenerate Graphs. Combinatorica, 2007, 27, 167-182.	0.6	14
40	Orthogonal Drawings of Series-Parallel Graphs with Minimum Bends. SIAM Journal on Discrete Mathematics, 2008, 22, 1570-1604.	0.4	13
41	Edge-coloring and f-coloring for various classes of graphs. Lecture Notes in Computer Science, 1994, , 199-207.	1.0	13
42	Generalized vertex-rankings of trees. Information Processing Letters, 1995, 56, 321-328.	0.4	12
43	CONVEX GRID DRAWINGS OF FOUR-CONNECTED PLANE GRAPHS. International Journal of Foundations of Computer Science, 2006, 17, 1031-1060.	0.8	12
44	Partitioning graphs of supply and demand. Discrete Applied Mathematics, 2009, 157, 2620-2633.	0.5	12
45	Partitioning Trees with Supply, Demand and Edge-Capacity. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1036-1043.	0.2	12
46	An algorithm for finding a large independent set in planar graphs. Networks, 1983, 13, 247-252.	1.6	11
47	Partitioning a Weighted Tree into Subtrees withÂWeights in a Given Range. Algorithmica, 2012, 62, 823-841.	1.0	11
48	A POLYNOMIAL-TIME ALGORITHM FOR FINDING TOTAL COLORINGS OF PARTIAL k-TREES. International Journal of Foundations of Computer Science, 1999, 10, 171-194.	0.8	10
49	A complete characterization of a family of key exchange protocols. International Journal of Information Security, 2002, 1, 131-142.	2.3	10
50	Open Rectangle-of-Influence Drawings ofÂInnerÂTriangulated Plane Graphs. Discrete and Computational Geometry, 2009, 41, 643-670.	0.4	10
51	Parametric power supply networks. Journal of Combinatorial Optimization, 2015, 29, 1-15.	0.8	10
52	On the relationship between the genus and the cardinality of the maximum matchings of a graph. Discrete Mathematics, 1979, 25, 149-156.	0.4	9
53	LABELING POINTS WITH RECTANGLES OF VARIOUS SHAPES. International Journal of Computational Geometry and Applications, 2002, 12, 511-528.	0.3	9
54	Algorithms for finding distance-edge-colorings of graphs. Journal of Discrete Algorithms, 2007, 5, 304-322.	0.7	9

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55	Octagonal drawings of plane graphs with prescribed face areas. Computational Geometry: Theory and Applications, 2009, 42, 214-230.	0.3	9
56	Minimum Cost Partitions of Trees with Supply and Demand. Algorithmica, 2012, 64, 400-415.	1.0	9
57	Algorithms for multicommodity flows in planar graphs. Algorithmica, 1989, 4, 471-501.	1.0	8
58	Algorithm for the Cost Edge-Coloring of Trees. Journal of Combinatorial Optimization, 2004, 8, 97-108.	0.8	8
59	A Linear-Time Algorithm to Find Four Independent Spanning Trees in Four-Connected Planar Graphs. Lecture Notes in Computer Science, 1998, , 310-323.	1.0	8
60	Characterization of optimal key set protocols. Discrete Applied Mathematics, 2003, 131, 213-236.	0.5	7
61	List total colorings of series-parallel graphs. Journal of Discrete Algorithms, 2005, 3, 47-60.	0.7	7
62	CONVEX DRAWINGS OF INTERNALLY TRICONNECTED PLANE GRAPHS ON O(n²) GRIDS. Discrete Mathematics, Algorithms and Applications, 2010, 02, 347-362.	0.4	7
63	Edge-disjoint paths in a grid bounded by two nested rectangles. Discrete Applied Mathematics, 1990, 27, 157-178.	0.5	6
64	Orthogonal Drawings of Plane Graphs without Bends. Lecture Notes in Computer Science, 2002, , 392-406.	1.0	6
65	Bandwidth consecutive multicolorings of graphs. Theoretical Computer Science, 2014, 532, 64-72.	0.5	6
66	Algorithm for the Cost Edge-Coloring of Trees. Lecture Notes in Computer Science, 2001, , 288-297.	1.0	6
67	Total Colorings of Degenerated Graphs. Lecture Notes in Computer Science, 2001, , 506-517.	1.0	6
68	A parallel algorithm for edge-coloring partial k-trees. Lecture Notes in Computer Science, 1994, , 359-369.	1.0	6
69	On the maximum matchings of regular multigraphs. Discrete Mathematics, 1981, 37, 105-114.	0.4	5
70	Multicolorings of Series-Parallel Graphs. Algorithmica, 2004, 38, 271-297.	1.0	5
71	Convex Grid Drawings of Four-Connected Plane Graphs. Lecture Notes in Computer Science, 2000, , 254-265.	1.0	5
72	Generalized edge-rankings of trees. Lecture Notes in Computer Science, 1997, , 390-404.	1.0	5

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73	Edge-Coloring Problems for Graphs.. Interdisciplinary Information Sciences, 1994, 1, 19-32.	0.2	5
74	Convex Grid Drawings of Plane Graphs with Rectangular Contours. Journal of Graph Algorithms and Applications, 2008, 12, 197-224.	0.4	5
75	Embedding planar graphs using PQâ€tree algorithms. Electronics and Communications in Japan, 1984, 67, 12-20.	0.1	4
76	An NC Parallel Algorithm for Edge-Coloring Seriesâ€“Parallel Multigraphs. Journal of Algorithms, 1997, 23, 359-374.	0.9	4
77	Rectangular grid drawings of plane graphs. Lecture Notes in Computer Science, 1996, , 92-105.	1.0	4
78	Planar Graph Problems. Computing Supplementum, 1990, , 53-68.	0.1	3
79	Variable-priority queue and doughnut routing. Journal of Algorithms, 1992, 13, 606-635.	0.9	3
80	Small grid drawings of planar graphs with balanced partition. Journal of Combinatorial Optimization, 2012, 24, 99-115.	0.8	3
81	Approximability of Partitioning Graphs with Supply and Demand. Lecture Notes in Computer Science, 2006, , 121-130.	1.0	3
82	Partitioning Trees of Supply and Demand. Lecture Notes in Computer Science, 2002, , 612-623.	1.0	3
83	List Total Colorings of Series-Parallel Graphs. Lecture Notes in Computer Science, 2003, , 172-181.	1.0	3
84	Rectangular Drawings of Planar Graphs. Lecture Notes in Computer Science, 2002, , 244-255.	1.0	3
85	Necessary and Sufficient Numbers of Cards for the Transformation Protocol. Lecture Notes in Computer Science, 2004, , 92-101.	1.0	3
86	Finding edge-disjoint paths in partial k-trees. Lecture Notes in Computer Science, 1996, , 203-212.	1.0	2
87	Generalized vertex-rankings of partial k-trees. Lecture Notes in Computer Science, 1997, , 212-221.	1.0	2
88	A Revised Transformation Protocol for Unconditionally Secure Secret Key Exchange. Theory of Computing Systems, 2008, 42, 187-221.	0.7	2
89	Efficient approximation algorithms for bandwidth consecutive multicolorings of graphs. Theoretical Computer Science, 2015, 607, 208-220.	0.5	2
90	Rectangular Drawings of Plane Graphs Without Designated Corners. Lecture Notes in Computer Science, 2000, , 85-94.	1.0	2

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91	Spanning Distribution Forests of Graphs. Lecture Notes in Computer Science, 2014, , 117-127.	1.0	2
92	Efficient Algorithms for Weighted Colorings of Series-Parallel Graphs. Lecture Notes in Computer Science, 2001, , 514-524.	1.0	2
93	Extended Rectangular Drawings of Plane Graphs with Designated Corners. Lecture Notes in Computer Science, 2002, , 256-267.	1.0	2
94	Drawing Plane Graphs. Lecture Notes in Computer Science, 2003, , 2-5.	1.0	2
95	Algorithms for Bandwidth Consecutive Multicolorings of Graphs. Lecture Notes in Computer Science, 2012, , 117-128.	1.0	2
96	A linear-time algorithm for four-partitioning four-connected planar graphs. Lecture Notes in Computer Science, 1997, , 334-344.	1.0	2
97	An algorithm for finding a forest in a planar graph-case in which a net may have terminals on the two specified face boundaries. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1989, 72, 68-79.	0.1	1
98	Algorithms for finding noncrossing paths with minimum total length in plane graphs. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1	
99	Convex Grid Drawings of Plane Graphs with Rectangular Contours. Lecture Notes in Computer Science, 2006, , 131-140.	1.0	1
100	Minimum Cost Partitions of Trees with Supply and Demand. Lecture Notes in Computer Science, 2010, , 351-362.	1.0	1
101	Algorithms for the Multicolorings of Partial k-Trees. Lecture Notes in Computer Science, 2002, , 430-439.	1.0	1
102	Spanning Distribution Trees of Graphs. Lecture Notes in Computer Science, 2013, , 153-162.	1.0	1
103	Box-Rectangular Drawings of Plane Graphs. Lecture Notes in Computer Science, 1999, , 250-261.	1.0	1
104	A Linear Algorithm for Finding Total Colorings of Partial k-Trees. Lecture Notes in Computer Science, 1999, , 347-356.	1.0	1
105	Grid Drawings of Four-Connected Plane Graphs. Lecture Notes in Computer Science, 1999, , 145-154.	1.0	1
106	Algorithms for plane multicommodity flows. Electronics and Communications in Japan, 1984, 67, 9-16.	0.1	0
107	An algorithm for multicommodity flows in a class of planar networks. Electronics and Communications in Japan, 1987, 70, 11-18.	0.1	0
108	Upper bounds for the fgâ€chromatic index of graphs. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1989, 72, 54-64.	0.1	0

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109	Algorithms for finding internally disjoint paths in a planar graph. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai) Tj ETQq1 1 0.784314 rgBT /Overlock 10		
110	A Polynomial-Time Algorithm for Finding Total Colorings of Partial k-Trees. Lecture Notes in Computer Science, 1998, , 100-113.	1.0	0
111	Generalized edge-colorings of weighted graphs. Discrete Mathematics, Algorithms and Applications, 2016, 08, 1650015.	0.4	0
112	Finding Independent Spanning Trees in Partial k-Trees. Lecture Notes in Computer Science, 2000, , 168-179.	1.0	0
113	Inner Rectangular Drawings of Plane Graphs. Lecture Notes in Computer Science, 2004, , 693-704.	1.0	0
114	Canonical Decomposition, Realizer, Schnyder Labeling and Orderly Spanning Trees of Plane Graphs. Lecture Notes in Computer Science, 2004, , 309-318.	1.0	0
115	Convex Drawings of Internally Triconnected Plane Graphs on O(n 2) Grids. Lecture Notes in Computer Science, 2009, , 760-770.	1.0	0
116	Scheduling file transfers under port and channel constraints. Lecture Notes in Computer Science, 1991, , 43-51.	1.0	0