

# Jou-Ming Chang

## List of Publications by Year in descending order

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120  
papers

1,532  
citations

331538

21  
h-index

434063

31  
g-index

123  
all docs

123  
docs citations

123  
times ranked

271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Panconnectivity, fault-tolerant hamiltonicity and hamiltonian-connectivity in alternating group graphs. <i>Networks</i> , 2004, 44, 302-310.	1.6	74
2	Parallel construction of optimal independent spanning trees on hypercubes. <i>Parallel Computing</i> , 2007, 33, 73-79.	1.3	65
3	Reducing the Height of Independent Spanning Trees in Chordal Rings. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2007, 18, 644-657.	4.0	47
4	Fault-tolerant cycle-embedding in alternating group graphs. <i>Applied Mathematics and Computation</i> , 2008, 197, 760-767.	1.4	47
5	Broadcasting secure messages via optimal independent spanning trees in folded hypercubes. <i>Discrete Applied Mathematics</i> , 2011, 159, 1254-1263.	0.5	45
6	Independent Spanning Trees on Multidimensional Torus Networks. <i>IEEE Transactions on Computers</i> , 2010, 59, 93-102.	2.4	42
7	Induced matchings in asteroidal triple-free graphs. <i>Discrete Applied Mathematics</i> , 2003, 132, 67-78.	0.5	41
8	Independent spanning trees vs. edge-disjoint spanning trees in locally twisted cubes. <i>Information Processing Letters</i> , 2010, 110, 414-419.	0.4	38
9	Recursive circulant graphs $\langle n, \{1, 2, \dots, k\} \rangle$ . <i>Discrete Applied Mathematics</i> , 2010, 112, 101-110.	0.5	36
10	Analysis on component connectivity of bubble-sort star graphs and burnt pancake graphs. <i>Discrete Applied Mathematics</i> , 2020, 279, 80-91.	0.5	36
11	Constructing two completely independent spanning trees in hypercube-variant networks. <i>Theoretical Computer Science</i> , 2016, 652, 28-37.	0.5	35
12	Parallel Construction of Independent Spanning Trees on Enhanced Hypercubes. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015, 26, 3090-3098.	4.0	32
13	The 4-component connectivity of alternating group networks. <i>Theoretical Computer Science</i> , 2019, 766, 38-45.	0.5	32
14	A Note on the Degree Condition of Completely Independent Spanning Trees. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2015, E98.A, 2191-2193.	0.2	30
15	The Existence of Completely Independent Spanning Trees for Some Compound Graphs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2020, 31, 201-210.	4.0	27
16	Feedback vertex sets in star graphs. <i>Information Processing Letters</i> , 2004, 89, 203-208.	0.4	26
17	Completely Independent Spanning Trees on Some Interconnection Networks. <i>IEICE Transactions on Information and Systems</i> , 2014, E97.D, 2514-2517.	0.4	26
18	Dual-CISTs: Configuring a Protection Routing on Some Cayley Networks. <i>IEEE/ACM Transactions on Networking</i> , 2019, 27, 1112-1123.	2.6	25

#	ARTICLE	IF	CITATIONS
19	A protection routing with secure mechanism in MÃ¶bius cubes. Journal of Parallel and Distributed Computing, 2020, 140, 1-12.	2.7	24
20	Completely Independent Spanning Trees on BCCC Data Center Networks With an Application to Fault-Tolerant Routing. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1939-1952.	4.0	24
21	A linear time algorithm for binary tree sequences transformation using left-arm and right-arm rotations. Theoretical Computer Science, 2006, 355, 303-314.	0.5	23
22	CONSTRUCTING MULTIPLE INDEPENDENT SPANNING TREES ON RECURSIVE CIRCULANT GRAPHS $G(2^m, 2)$ . International Journal of Foundations of Computer Science, 2010, 21, 73-90.	0.8	23
23	On Computing Component (Edge) Connectivities of Balanced Hypercubes. Computer Journal, 2020, 63, 1311-1320.	1.5	22
24	Relationship between extra edge connectivity and component edge connectivity for regular graphs. Theoretical Computer Science, 2020, 833, 41-55.	0.5	22
25	A fully parallelized scheme of constructing independent spanning trees on MÃ¶bius cubes. Journal of Supercomputing, 2015, 71, 952-965.	2.4	20
26	Construction independent spanning trees on locally twisted cubes in parallel. Journal of Combinatorial Optimization, 2017, 33, 956-967.	0.8	20
27	Completely Independent Spanning Trees on Complete Graphs, Complete Bipartite Graphs and Complete Tripartite Graphs. Smart Innovation, Systems and Technologies, 2013, , 107-113.	0.5	20
28	A comment on "Independent spanning trees in crossed cubes". Information Processing Letters, 2014, 114, 734-739.	0.4	19
29	A parallel algorithm for constructing independent spanning trees in twisted cubes. Discrete Applied Mathematics, 2017, 219, 74-82.	0.5	19
30	The lower and upper forcing geodetic numbers of block "cactus" graphs. European Journal of Operational Research, 2006, 175, 238-245.	3.5	18
31	A two-stages tree-searching algorithm for finding three completely independent spanning trees. Theoretical Computer Science, 2019, 784, 65-74.	0.5	18
32	On Component Connectivity of Hierarchical Star Networks. International Journal of Foundations of Computer Science, 2020, 31, 313-326.	0.8	18
33	Constructing dual-CISTs of DCell data center networks. Applied Mathematics and Computation, 2019, 362, 124546.	1.4	17
34	Amortized efficiency of constructing multiple independent spanning trees on bubble-sort networks. Journal of Combinatorial Optimization, 2019, 38, 972-986.	0.8	17
35	Measuring the Vulnerability of Alternating Group Graphs and Split-Star Networks in Terms of Component Connectivity. IEEE Access, 2019, 7, 97745-97759.	2.6	17
36	Three completely independent spanning trees of crossed cubes with application to secure-protection routing. Information Sciences, 2020, 541, 516-530.	4.0	17

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37	Distributed algorithms for finding the unique minimum distance dominating set in directed split-stars. <i>Journal of Parallel and Distributed Computing</i> , 2003, 63, 481-487.	2.7	16
38	Ranking and unranking of non-regular trees with a prescribed branching sequence. <i>Mathematical and Computer Modelling</i> , 2011, 53, 1331-1335.	2.0	14
39	A Fast Parallel Algorithm for Constructing Independent Spanning Trees on Parity Cubes. <i>Applied Mathematics and Computation</i> , 2015, 268, 489-495.	1.4	14
40	Locally exchanged twisted cubes: Connectivity and super connectivity. <i>Information Processing Letters</i> , 2016, 116, 460-466.	0.4	14
41	Improving the diameters of completely independent spanning trees in locally twisted cubes. <i>Information Processing Letters</i> , 2019, 141, 22-24.	0.4	14
42	Strong Menger Connectedness of Augmented $k$ -ary $n$ -cubes. <i>Computer Journal</i> , 2021, 64, 812-825.	1.5	14
43	Completely Independent Spanning Trees on 4-Regular Chordal Rings. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2017, E100.A, 1932-1935.	0.2	14
44	Two Kinds of Generalized 3-Connectivities of Alternating Group Networks. <i>Lecture Notes in Computer Science</i> , 2018, , 3-14.	1.0	13
45	The reliability analysis based on the generalized connectivity in balanced hypercubes. <i>Discrete Applied Mathematics</i> , 2021, 292, 19-32.	0.5	13
46	Independent spanning trees on folded hyperstars. <i>Networks</i> , 2010, 56, 272-281.	1.6	12
47	Ranking and Unranking of $t$ -Ary Trees Using RD-Sequences. <i>IEICE Transactions on Information and Systems</i> , 2011, E94-D, 226-232.	0.4	12
48	Finding the set of all hinge vertices for strongly chordal graphs in linear time. <i>Information Sciences</i> , 1997, 99, 173-182.	4.0	11
49	Independent Spanning Trees on Folded Hypercubes. , 2009, , .		11
50	A loopless algorithm for generating multiple binary tree sequences simultaneously. <i>Theoretical Computer Science</i> , 2014, 556, 25-33.	0.5	11
51	Vertex-transitivity on folded crossed cubes. <i>Information Processing Letters</i> , 2016, 116, 689-693.	0.4	11
52	Constructing dual-CISTs of pancake graphs and performance assessment of protection routings on some Cayley networks. <i>Journal of Supercomputing</i> , 2021, 77, 990-1014.	2.4	11
53	LexBFS-Ordering in Asteroidal Triple-Free Graphs. <i>Lecture Notes in Computer Science</i> , 1999, , 163-172.	1.0	11
54	The recognition of geodetically connected graphs. <i>Information Processing Letters</i> , 1998, 65, 81-88.	0.4	10

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55	An efficient algorithm for estimating rotation distance between two binary trees. International Journal of Computer Mathematics, 2005, 82, 1095-1106.	1.0	10
56	Geodesic-pancyclic graphs. Discrete Applied Mathematics, 2007, 155, 1971-1978.	0.5	10
57	A Quadratic Algorithm for Finding Next-to-Shortest Paths in Graphs. Algorithmica, 2011, 61, 402-418.	1.0	10
58	The Construction of Multiple Independent Spanning Trees on Burnt Pancake Networks. IEEE Access, 2021, 9, 16679-16691.	2.6	10
59	Pruning Longer Branches of Independent Spanning Trees on Folded Hyper-Stars. Computer Journal, 2015, 58, 2972-2981.	1.5	9
60	A well-equalized 3-CIST partition of alternating group graphs. Information Processing Letters, 2020, 155, 105874.	0.4	9
61	Constructing dual-CISTs of folded divide-and-swap cubes. Theoretical Computer Science, 2021, 856, 75-87.	0.5	9
62	Packing internally disjoint Steiner trees to compute the $\hat{\mathbb{P}}_3$ -connectivity in augmented cubes. Journal of Parallel and Distributed Computing, 2021, 154, 42-53.	2.7	9
63	Constructing Two Completely Independent Spanning Trees in Balanced Hypercubes. IEICE Transactions on Information and Systems, 2019, E102.D, 2409-2412.	0.4	9
64	Restricted power domination and fault-tolerant power domination on grids. Discrete Applied Mathematics, 2010, 158, 1079-1089.	0.5	8
65	Reliability assessment of the Cayley graph generated by trees. Discrete Applied Mathematics, 2020, 287, 10-14.	0.5	8
66	Constructing Independent Spanning Trees on Bubble-Sort Networks. Lecture Notes in Computer Science, 2018, , 1-13.	1.0	8
67	Solving the all-pairs-shortest-length problem on chordal bipartite graphs. Information Processing Letters, 1999, 69, 87-93.	0.4	7
68	On the diameter of geometric path graphs of points in convex position. Information Processing Letters, 2009, 109, 409-413.	0.4	7
69	A new way of counting nm. Computers and Mathematics With Applications, 1995, 29, 75-80.	1.4	6
70	Upper bounds on the queuenumber of k-ary n-cubes. Information Processing Letters, 2009, 110, 50-56.	0.4	6
71	Amortized efficiency of generation, ranking and unranking left-child sequences in lexicographic order. Discrete Applied Mathematics, 2019, 268, 223-236.	0.5	6
72	Reliability Analysis of Alternating Group Graphs and Split-Stars. Computer Journal, 2021, 64, 1425-1436.	1.5	6

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73	Comments on "A Hamilton sufficient condition for completely independent spanning tree". Discrete Applied Mathematics, 2020, 283, 730-733.	0.5	6
74	Configuring Protection Routing via Completely Independent Spanning Trees in Dense Gaussian On-Chip Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 932-946.	4.1	6
75	A Note on "An improved upper bound on the queuenumber of the hypercube". Information Processing Letters, 2008, 108, 107-109.	0.4	5
76	A new upper bound on the queuenumber of hypercubes. Discrete Mathematics, 2010, 310, 935-939.	0.4	5
77	Incidence coloring on hypercubes. Theoretical Computer Science, 2014, 557, 59-65.	0.5	5
78	Constructing dual-CISTs with short diameters using a generic adjustment scheme on bicubes. Theoretical Computer Science, 2021, 878-879, 102-112.	0.5	5
79	Parallel construction of multiple independent spanning trees on highly scalable datacenter networks. Applied Mathematics and Computation, 2022, 413, 126617.	1.4	5
80	RECOGNIZING HINGE-FREE LINE GRAPHS AND TOTAL GRAPHS. Taiwanese Journal of Mathematics, 2001, 5, .	0.2	5
81	Realizing Exchanged Crossed Cube Communication Patterns on Linear Array WDM Optical Networks. International Journal of Foundations of Computer Science, 2018, 29, 1003-1021.	0.8	4
82	Two-disjoint-cycle-cover bipancyclicity of balanced hypercubes. Applied Mathematics and Computation, 2020, 381, 125305.	1.4	4
83	Ranking and Unranking of Non-regular Trees in Gray-Code Order. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1059-1065.	0.2	4
84	A Parallel Algorithm for Constructing Two Edge-disjoint Hamiltonian Cycles in Locally Twisted Cubes. , 2020, , .		4
85	Amortized efficiency of generating planar paths in convex position. Theoretical Computer Science, 2011, 412, 4504-4512.	0.5	3
86	An Energy-Aware Random Multi-path Routing Protocol for MANETs. , 2015, , .		3
87	A Parallel Construction of Vertex-Disjoint Spanning Trees with Optimal Heights in Star Networks. Lecture Notes in Computer Science, 2017, , 41-55.	1.0	3
88	Transmission Failure Analysis of Multi-Protection Routing in Data Center Networks With Heterogeneous Edge-Core Servers. IEEE/ACM Transactions on Networking, 2022, 30, 1689-1702.	2.6	3
89	A secure data transmission scheme based on multi-protection routing in datacenter networks. Journal of Parallel and Distributed Computing, 2022, 167, 222-231.	2.7	3
90	On the powers of graphs with bounded asteroidal number. Discrete Mathematics, 2000, 223, 125-133.	0.4	2

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91	Sorting a sequence of strong kings in a tournament. Information Processing Letters, 2003, 87, 317-320.	0.4	2
92	The existence and uniqueness of strong kings in tournaments. Discrete Mathematics, 2008, 308, 2629-2633.	0.4	2
93	Cycle Embedding in Generalized Recursive Circulant Graphs. IEICE Transactions on Information and Systems, 2018, E101.D, 2916-2921.	0.4	2
94	Improved algorithms for ranking and unranking $(k, \hat{m})$ -ary trees in B-order. Journal of Combinatorial Optimization, 2019, , 1.	0.8	2
95	Three Completely Independent Spanning Trees of Crossed Cubes with Application to Secure-Protection Routing. , 2019, , .		2
96	Gray-Code Ranking and Unranking on Left-Weight Sequences of Binary Trees. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1067-1074.	0.2	2
97	Constructing Three Completely Independent Spanning Trees in Locally Twisted Cubes. Lecture Notes in Computer Science, 2019, , 88-99.	1.0	2
98	Task scheduling with precedence constraints to minimize the total completion time. International Journal of Systems Science, 1995, 26, 2203-2217.	3.7	1
99	On the complexity of graph clustering with bounded diameter. , 2014, , .		1
100	A loopless algorithm for generating $(k, \hat{m})$ -ary trees in Gray code order. Optimization Letters, 2021, 15, 1133-1154.	0.9	1
101	Amortized Efficiency of Ranking and Unranking Left-Child Sequences in Lexicographic Order. Lecture Notes in Computer Science, 2016, , 505-518.	1.0	1
102	Gray Codes for AT-Free Orders via Antimatroids. Lecture Notes in Computer Science, 2016, , 77-87.	1.0	1
103	Constructing tri-CISTs in shuffle-cubes. Journal of Combinatorial Optimization, 2022, 44, 3194-3211.	0.8	1
104	An efficient distributed algorithm for finding all hinge vertices in networks. International Journal of Computer Mathematics, 2005, 82, 821-825.	1.0	0
105	A Developed Restricted Rotation for Binary Trees Transformation. , 2009, , .		0
106	Ranking and unranking of well-formed parenthesis strings in diverse representations. , 2011, , .		0
107	Parallel Construction of Independent Spanning Trees on Parity Cubes. , 2014, , .		0
108	On the incidence coloring number of folded hypercubes. , 2014, , .		0

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109	Ranking left-weight sequences of binary trees in gray-code order. , 2015, , .		0
110	Folded crossed cube with five or more dimensions is not vertex-transitive. , 2015, , .		0
111	The Wide Diameters of Regular Hyper-Stars and Folded Hyper-Stars. Computer Journal, 2018, 61, 121-128.	1.5	0
112	Constructing Tri-CISTs in Shuffle-Cubes. Lecture Notes in Computer Science, 2021, , 330-342.	1.0	0
113	A Loopless Algorithm for Generating Multiple Binary Tree Sequences Simultaneously. Lecture Notes in Computer Science, 2013, , 340-350.	1.0	0
114	Longest Fault-Free Cycles in Folded Hypercubes with Conditional Faulty Elements. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1187-1191.	0.2	0
115	Queue Layouts of Toroidal Grids. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1180-1186.	0.2	0
116	On the Structure of Locally Outerplanar Graphs. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1212-1215.	0.2	0
117	A Constant Amortized Time Algorithm for Generating Left-Child Sequences in Lexicographic Order. Lecture Notes in Computer Science, 2017, , 221-232.	1.0	0
118	Improved Algorithms for Ranking and Unranking $(k, \hat{m})$ -Ary Trees. Lecture Notes in Computer Science, 2019, , 16-28.	1.0	0
119	A Loopless Algorithm for Generating $(k, \hat{m})$ -ary Trees in Gray-Code Order. Lecture Notes in Computer Science, 2020, , 121-132.	1.0	0
120	Three Edge-Disjoint Hamiltonian Cycles in Crossed Cubes with Applications to Fault-Tolerant Data Broadcasting. , 2021, , .		0