

# Wing-Kai Hon

## List of Publications by Year in descending order

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Version: 2024-02-01

109  
papers

1,275  
citations

535685

17  
h-index

563245

28  
g-index

112  
all docs

112  
docs citations

112  
times ranked

686  
citing authors

#	ARTICLE	IF	CITATIONS
1	Approximating Dynamic Weighted Vertex Cover with Soft Capacities. <i>Algorithmica</i> , 2022, 84, 124-149.	1.0	0
2	A framework for designing space-efficient dictionaries for parameterized and order-preserving matching. <i>Theoretical Computer Science</i> , 2021, 854, 52-62.	0.5	0
3	MetaSMC: a coalescent-based shotgun sequence simulator for evolving microbial populations. <i>Bioinformatics</i> , 2019, 35, 1677-1685.	1.8	1
4	Reconstructing One-Articulated Networks with Distance Matrices. <i>Journal of Computational Biology</i> , 2018, 25, 253-269.	0.8	1
5	Budget-constrained multi-battle contests: A new perspective and analysis. <i>Theoretical Computer Science</i> , 2018, 721, 16-26.	0.5	1
6	Dictionary Matching with a Bounded Gap in Pattern or in Text. <i>Algorithmica</i> , 2018, 80, 698-713.	1.0	6
7	Compact Encoding for Galled-Trees and Its Applications. , 2018, , .		2
8	Partitions of $n$ that avoid partitions of $f$ , and an application to the tiny-pan coin weighing problem. <i>Discrete Mathematics</i> , 2017, 340, 1397-1404.	0.4	1
9	Stabbing Colors in One Dimension. , 2017, , .		0
10	Reconstructing One-Articulated Networks with Distance Matrices. <i>Lecture Notes in Computer Science</i> , 2017, , 34-45.	1.0	1
11	On Finding the Maximum and Minimum Density Axes-parallel Regions in IRd. <i>Fundamenta Informaticae</i> , 2017, 152, 1-12.	0.3	4
12	User satisfaction based resource allocation schemes for multicast in D2D networks. , 2017, , .		4
13	In-place algorithms for exact and approximate shortest unique substring problems. <i>Theoretical Computer Science</i> , 2017, 690, 12-25.	0.5	9
14	Space-time trade-offs for finding shortest unique substrings and maximal unique matches. <i>Theoretical Computer Science</i> , 2017, 700, 75-88.	0.5	9
15	On the Grundy number of Cameron graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2017, 63, 503-516.	0.4	0
16	Resource Allocation Schemes for Revenue Maximization in Multicast D2D Networks. <i>IEEE Access</i> , 2017, 5, 26340-26353.	2.6	5
17	Practical Index Framework for Efficient Time-Travel Phrase Queries on Versioned Documents. , 2016, , .		1
18	On complexities of minus domination. <i>Discrete Optimization</i> , 2016, 22, 6-19.	0.6	5

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19	On the P <sub>3</sub> -convexity of some classes of graphs with few P <sub>4</sub> s and permutation graphs. , 2016, , .		0
20	Scheduling for electricity cost in a smart grid. Journal of Scheduling, 2016, 19, 687-699.	1.3	9
21	Rainbow Domination and Related Problems on Some Classes of Perfect Graphs. Lecture Notes in Computer Science, 2016, , 121-134.	1.0	2
22	Convex Independence in Permutation Graphs. Lecture Notes in Computer Science, 2016, , 710-717.	1.0	0
23	Non-shared Edges. , 2016, , 1414-1416.		0
24	Efficient Generation of Top-k Procurements in a Multi-item Auction. Lecture Notes in Computer Science, 2016, , 181-193.	1.0	1
25	Edge-clique covers of the tensor product. Theoretical Computer Science, 2015, 607, 68-74.	0.5	0
26	Application of 16S rRNA metagenomics to analyze bacterial communities at a respiratory care centre in Taiwan. Applied Microbiology and Biotechnology, 2015, 99, 2871-2881.	1.7	16
27	Novel Spare TSV Deployment for 3-D ICs Considering Yield and Timing Constraints. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 577-588.	1.9	21
28	On maximum independent set of categorical product and ultimate categorical ratios of graphs. Theoretical Computer Science, 2015, 588, 81-95.	0.5	5
29	Geometric BWT: Compressed Text Indexing via Sparse Suffixes and Range Searching. Algorithmica, 2015, 71, 258-278.	1.0	14
30	Compressing Dictionary Matching Index via Sparsification Technique. Algorithmica, 2015, 72, 515-538.	1.0	6
31	Dictionary Matching with Uneven Gaps. Lecture Notes in Computer Science, 2015, , 247-260.	1.0	1
32	An In-place Framework for Exact and Approximate Shortest Unique Substring Queries. Lecture Notes in Computer Science, 2015, , 755-767.	1.0	5
33	Non-shared Edges. , 2015, , 1-3.		0
34	Space-Efficient Frameworks for Top- k String Retrieval. Journal of the ACM, 2014, 61, 1-36.	1.8	28
35	Rendezvous for heterogeneous spectrum-agile devices. , 2014, , .		35
36	Yield and timing constrained spare TSV assignment for three-dimensional integrated circuits. , 2014, , .		0

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37	MyBenchmark: generating databases for query workloads. VLDB Journal, 2014, 23, 895-913.	2.7	18
38	Yield and timing constrained spare TSV assignment for three-dimensional integrated circuits. , 2014, , .		0
39	\$\$Top\$\$ - \$\$K\$\$ Query Retrieval of Combinations with Sum-of-Subsets Ranking. Lecture Notes in Computer Science, 2014, , 490-505.	1.0	2
40	Compressed Persistent Index for Efficient Rank/Select Queries. Lecture Notes in Computer Science, 2013, , 402-414.	1.0	0
41	Compressed property suffix trees. Information and Computation, 2013, 232, 10-18.	0.5	5
42	New Algorithms for Position Heaps. Lecture Notes in Computer Science, 2013, , 95-106.	1.0	7
43	Compressed text indexing with wildcards. Journal of Discrete Algorithms, 2013, 19, 23-29.	0.7	6
44	Faster compressed dictionary matching. Theoretical Computer Science, 2013, 475, 113-119.	0.5	8
45	Faster Compressed Top-k Document Retrieval. , 2013, , .		4
46	Scheduling for Electricity Cost in Smart Grid. Lecture Notes in Computer Science, 2013, , 306-317.	1.0	11
47	Space-Efficient Construction Algorithm for the Circular Suffix Tree. Lecture Notes in Computer Science, 2013, , 142-152.	1.0	2
48	On Independence Domination. Lecture Notes in Computer Science, 2013, , 183-194.	1.0	1
49	Indexes for Document Retrieval with Relevance. Lecture Notes in Computer Science, 2013, , 351-362.	1.0	14
50	On Complexities of Minus Domination. Lecture Notes in Computer Science, 2013, , 178-189.	1.0	2
51	Memory-efficient pattern matching architectures using perfect hashing on graphic processing units. , 2012, , .		12
52	Towards an Optimal Space-and-Query-Time Index for Top-k Document Retrieval. Lecture Notes in Computer Science, 2012, , 173-184.	1.0	17
53	On position restricted substring searching in succinct space. Journal of Discrete Algorithms, 2012, 17, 109-114.	0.7	19
54	Document Listing for Queries with Excluded Pattern. Lecture Notes in Computer Science, 2012, , 185-195.	1.0	11

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55	Efficient Algorithm for Circular Burrows-Wheeler Transform. Lecture Notes in Computer Science, 2012, , 257-268.	1.0	12
56	Compressed Property Suffix Trees. , 2011, , .		2
57	Compressed Dictionary Matching with One Error. , 2011, , .		7
58	Î-RA: a parallel sparse index for genomic read alignment. BMC Genomics, 2011, 12, S7.	1.2	4
59	Succinct data structures for Searchable Partial Sums with optimal worst-case performance. Theoretical Computer Science, 2011, 412, 5176-5186.	0.5	21
60	Faster query algorithms for the text fingerprinting problem. Information and Computation, 2011, 209, 1057-1069.	0.5	4
61	Improved data structures for the orthogonal range successor problem. Computational Geometry: Theory and Applications, 2011, 44, 148-159.	0.3	18
62	Cache-oblivious index for approximate string matching. Theoretical Computer Science, 2011, 412, 3579-3588.	0.5	7
63	Algorithms for pseudoknot classification. , 2011, , .		0
64	Inverted indexes for phrases and strings. , 2011, , .		34
65	RNASAlign: RNA Structural Alignment System. Bioinformatics, 2011, 27, 2151-2152.	1.8	5
66	Compressed Text Indexing with Wildcards. Lecture Notes in Computer Science, 2011, , 267-277.	1.0	7
67	Succinct Indexes for Circular Patterns. Lecture Notes in Computer Science, 2011, , 673-682.	1.0	6
68	A framework for testing DBMS features. VLDB Journal, 2010, 19, 203-230.	2.7	25
69	Efficient index for retrieving top-k most frequent documents. Journal of Discrete Algorithms, 2010, 8, 402-417.	0.7	22
70	PSI-RA: A parallel sparse index for read alignment on genomes. , 2010, , .		1
71	Faster Compressed Dictionary Matching. Lecture Notes in Computer Science, 2010, , 191-200.	1.0	16
72	Compression, Indexing, and Retrieval for Massive String Data. Lecture Notes in Computer Science, 2010, , 260-274.	1.0	20

#	ARTICLE	IF	CITATIONS
73	I/O-Efficient Compressed Text Indexes: From Theory to Practice. , 2010, , .		7
74	Clock Skew Minimization in Multi-Voltage Mode Designs Using Adjustable Delay Buffers. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 1921-1930.	1.9	27
75	Detection of Intelligent Mobile Target in a Mobile Sensor Network. IEEE/ACM Transactions on Networking, 2010, 18, 41-52.	2.6	78
76	Optimizing Link Assignment to Enhance Service in Probabilistic Network. , 2010, , .		1
77	Compressed Indexes for Approximate Library Management. , 2010, , .		0
78	Cryptographic and Physical Zero-Knowledge Proof: From Sudoku to Nonogram. Lecture Notes in Computer Science, 2010, , 102-112.	1.0	25
79	String Retrieval for Multi-pattern Queries. Lecture Notes in Computer Science, 2010, , 55-66.	1.0	17
80	Generating databases for query workloads. Proceedings of the VLDB Endowment, 2010, 3, 848-859.	2.1	26
81	Distance Reduction in Mobile Wireless Communication: Lower Bound Analysis and Practical Attainment. IEEE Transactions on Mobile Computing, 2009, 8, 276-287.	3.9	10
82	Space-Efficient Framework for Top-k String Retrieval Problems. , 2009, , .		69
83	Breaking a Time-and-Space Barrier in Constructing Full-Text Indices. SIAM Journal on Computing, 2009, 38, 2162-2178.	0.8	71
84	Efficient Data Structures for the Orthogonal Range Successor Problem. Lecture Notes in Computer Science, 2009, , 96-105.	1.0	7
85	On Entropy-Compressed Text Indexing in External Memory. Lecture Notes in Computer Science, 2009, , 75-89.	1.0	14
86	Succinct Index for Dynamic Dictionary Matching. Lecture Notes in Computer Science, 2009, , 1034-1043.	1.0	12
87	Efficient Index for Retrieving Top-k Most Frequent Documents. Lecture Notes in Computer Science, 2009, , 182-193.	1.0	9
88	Compressed Index for Dictionary Matching. , 2008, , .		21
89	Geometric Burrows-Wheeler Transform: Linking Range Searching and Text Indexing. Proceedings of the Data Compression Conference, 2008, , .	0.0	41
90	The SBC-tree. , 2008, , .		8

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91	Tight competitive ratios for parallel disk prefetching and caching. , 2008, , .		1
92	Non-shared Edges. , 2008, , 579-581.		0
93	Compressed indexes for dynamic text collections. ACM Transactions on Algorithms, 2007, 3, 21.	0.9	69
94	On Area of Interest Coverage in Surveillance Mobile Sensor Networks. IEEE International Workshop on Quality of Service, 2007, , .	0.0	9
95	On Intelligent Mobile Target Detection in a Mobile Sensor Network. , 2007, , .		8
96	Compressed data structures: Dictionaries and data-aware measures. Theoretical Computer Science, 2007, 387, 313-331.	0.5	42
97	A Space and Time Efficient Algorithm for Constructing Compressed Suffix Arrays. Algorithmica, 2007, 48, 23-36.	1.0	59
98	A Framework for Dynamizing Succinct Data Structures. Lecture Notes in Computer Science, 2007, , 521-532.	1.0	15
99	Approximate string matching using compressed suffix arrays. Theoretical Computer Science, 2006, 352, 240-249.	0.5	31
100	Compressed Dictionaries: Space Measures, Data Sets, and Experiments. Lecture Notes in Computer Science, 2006, , 158-169.	1.0	8
101	The Indiana Center for Database Systems at Purdue University. SIGMOD Record, 2005, 34, 53-58.	0.7	3
102	SUBTREE TRANSFER DISTANCE FOR DEGREE-D PHYLOGENIES. International Journal of Foundations of Computer Science, 2004, 15, 893-909.	0.8	4
103	Non-shared edges and nearest neighbor interchanges revisited. Information Processing Letters, 2004, 91, 129-134.	0.4	5
104	APPROXIMATING THE NEAREST NEIGHBOR INTERCHARGE DISTANCE FOR NON-UNIFORM-DEGREE EVOLUTIONARY TREES. International Journal of Foundations of Computer Science, 2001, 12, 533-550.	0.8	4
105	Improved Phylogeny Comparisons: Non-shared Edges, Nearest Neighbor Interchanges, and Subtree Transfers. Lecture Notes in Computer Science, 2000, , 527-538.	1.0	0
106	Approximating the Nearest Neighbor Interchange Distance for Evolutionary Trees with Non-uniform Degrees. Lecture Notes in Computer Science, 1999, , 61-70.	1.0	2
107	Breaking a time-and-space barrier in constructing full-text indices. , 0, , .		12
108	Compressed index for dynamic text. , 0, , .		0

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109	Compressed Data Structures: Dictionaries and Data-Aware Measures. , 0, , .		12