Wing-Kai Hon

List of Publications by Citations

99 papers	**922** citations	**17** h-index	**25** g-index
112 ext. papers	**1,095** ext. citations	**1.4** avg, IF	**4.06** L-index

#	Paper	IF	Citations
99	Space-Efficient Framework for Top-k String Retrieval Problems **2009**,		55
98	Compressed indexes for dynamic text collections. *ACM Transactions on Algorithms*, **2007**, 3, 21	1.2	52
97	. *IEEE/ACM Transactions on Networking*, **2010**, 18, 41-52	3.8	50
96	A Space and Time Efficient Algorithm for Constructing Compressed Suffix Arrays. *Algorithmica*, **2007**, 48, 23-36	0.9	45
95	Breaking a Time-and-Space Barrier in Constructing Full-Text Indices. *SIAM Journal on Computing*, **2009**, 38, 2162-2178	1.1	40
94	. *Proceedings of the Data Compression Conference*, **2008**,		36
93	Rendezvous for heterogeneous spectrum-agile devices **2014**,		28
92	Approximate string matching using compressed suffix arrays. *Theoretical Computer Science*, **2006**, 352, 240-249	1.1	23
91	Compressed data structures: Dictionaries and data-aware measures. *Theoretical Computer Science*, **2007**, 387, 313-331	1.1	22
90	Inverted indexes for phrases and strings **2011**,		21
89	Compressed Index for Dictionary Matching **2008**,		20
88	Succinct data structures for Searchable Partial Sums with optimal worst-case performance. *Theoretical Computer Science*, **2011**, 412, 5176-5186	1.1	19
87	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	2.5	19
86	Generating databases for query workloads. *Proceedings of the VLDB Endowment*, **2010**, 3, 848-859	3.1	19
85	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	2.5	18
84	Space-Efficient Frameworks for Top- k String Retrieval. *Journal of the ACM*, **2014**, 61, 1-36	2	18
83	Compression, Indexing, and Retrieval for Massive String Data. *Lecture Notes in Computer Science*, **2010**, 260-274	0.9	18

82	On position restricted substring searching in succinct space. *Journal of Discrete Algorithms*, **2012**, 17, 109-114		17
81	Improved data structures for the orthogonal range successor problem. *Computational Geometry: Theory and Applications*, **2011**, 44, 148-159	0.4	16
80	A framework for testing DBMS features. *VLDB Journal*, **2010**, 19, 203-230	3.9	16
79	Efficient index for retrieving top-k most frequent documents. *Journal of Discrete Algorithms*, **2010**, 8, 402-417		16
78	Cryptographic and Physical Zero-Knowledge Proof: From Sudoku to Nonogram. *Lecture Notes in Computer Science*, **2010**, 102-112	0.9	16
77	Faster Compressed Dictionary Matching. *Lecture Notes in Computer Science*, **2010**, 191-200	0.9	15
76	MyBenchmark: generating databases for query workloads. *VLDB Journal*, **2014**, 23, 895-913	3.9	13
75	On Entropy-Compressed Text Indexing in External Memory. *Lecture Notes in Computer Science*, **2009**, 75-89	0.9	13
74	Application of 16S rRNA metagenomics to analyze bacterial communities at a respiratory care centre in Taiwan. *Applied Microbiology and Biotechnology*, **2015**, 99, 2871-81	5.7	12
73	Towards an Optimal Space-and-Query-Time Index for Top-k Document Retrieval. *Lecture Notes in Computer Science*, **2012**, 173-184	0.9	12
72	Compressed data structures: dictionaries and data-aware measures		11
71	Succinct Index for Dynamic Dictionary Matching. *Lecture Notes in Computer Science*, **2009**, 1034-1043	0.9	11
70	A Framework for Dynamizing Succinct Data Structures. *Lecture Notes in Computer Science*, **2007**, 521-532	0.9	10
69	String Retrieval for Multi-pattern Queries. *Lecture Notes in Computer Science*, **2010**, 55-66	0.9	10
68	Geometric BWT: Compressed Text Indexing via Sparse Suffixes and Range Searching. *Algorithmica*, **2015**, 71, 258-278	0.9	9
67	In-place algorithms for exact and approximate shortest unique substring problems. *Theoretical Computer Science*, **2017**, 690, 12-25	1.1	9
66	Space–Time trade-offs for finding shortest unique substrings and maximal unique matches. *Theoretical Computer Science*, **2017**, 700, 75-88	1.1	9
65	Distance Reduction in Mobile Wireless Communication: Lower Bound Analysis and Practical Attainment. *IEEE Transactions on Mobile Computing*, **2009**, 8, 276-287	4.6	9

46	The SBC-tree **2008**,		5
45	An In-place Framework for Exact and Approximate Shortest Unique Substring Queries. *Lecture Notes in Computer Science*, **2015**, 755-767	0.9	5
44	Efficient Index for Retrieving Top-k Most Frequent Documents. *Lecture Notes in Computer Science*, **2009**, 182-193	0.9	5
43	Resource Allocation Schemes for Revenue Maximization in Multicast D2D Networks. *IEEE Access*, **2017**, 5, 26340-26353	3.5	4
42	Faster query algorithms for the text fingerprinting problem. *Information and Computation*, **2011**, 209, 1057-1069	0.8	4
41	Succinct Indexes for Circular Patterns. *Lecture Notes in Computer Science*, **2011**, 673-682	0.9	4
40	On complexities of minus domination. *Discrete Optimization*, **2016**, 22, 6-19	1	4
39	On Finding the Maximum and Minimum Density Axes-parallel Regions in IRd. *Fundamenta Informaticae*, **2017**, 152, 1-12	1	3
38	On maximum independent set of categorical product and ultimate categorical ratios of graphs. *Theoretical Computer Science*, **2015**, 588, 81-95	1.1	3
37	Compressed property suffix trees. *Information and Computation*, **2013**, 232, 10-18	0.8	3
36	ERA: a parallel sparse index for genomic read alignment. *BMC Genomics*, **2011**, 12 Suppl 2, S7	4.5	3
35	Cache-oblivious index for approximate string matching. *Theoretical Computer Science*, **2011**, 412, 3579-3588	1	3
34	User satisfaction based resource allocation schemes for multicast in D2D networks **2017**,		2
33	New Algorithms for Position Heaps. *Lecture Notes in Computer Science*, **2013**, 95-106	0.9	2
32	Faster Compressed Top-k Document Retrieval **2013**,		2
31	Identifying Volatile Data from Multiple Memory Dumps in Live Forensics. *International Federation for Information Processing*, **2010**, 185-194		2
30	Compressed Property Suffix Trees **2011**,		2
29	Non-shared edges and nearest neighbor interchanges revisited. *Information Processing Letters*, **2004**, 91, 129-134	0.8	2

28	The Indiana Center for Database Systems at Purdue University. *SIGMOD Record*, **2005**, 34, 53-58	1.1	2
27	Space-Efficient Construction Algorithm for the Circular Suffix Tree. *Lecture Notes in Computer Science*, **2013**, 142-152	0.9	2
26	Approximating the Nearest Neighbor Interchange Distance for Evolutionary Trees with Non-uniform Degrees. *Lecture Notes in Computer Science*, **1999**, 61-70	0.9	2
25	(Top)-(K) Query Retrieval of Combinations with Sum-of-Subsets Ranking. *Lecture Notes in Computer Science*, **2014**, 490-505	0.9	2
24	Partitions of n that avoid partitions of f, and an application to the tiny-pan coin weighing problem. *Discrete Mathematics*, **2017**, 340, 1397-1404	0.7	1
23	Reconstructing One-Articulated Networks with Distance Matrices. *Journal of Computational Biology*, **2018**, 25, 253-269	1.7	1
22	Budget-constrained multi-battle contests: A new perspective and analysis. *Theoretical Computer Science*, **2018**, 721, 16-26	1.1	1
21	Rainbow Domination and Related Problems on Some Classes of Perfect Graphs. *Lecture Notes in Computer Science*, **2016**, 121-134	0.9	1
20	Compact Encoding for Galled-Trees and Its Applications **2018**,		1
19	Edge-Clique Covers of the Tensor Product. *Lecture Notes in Computer Science*, **2014**, 66-74	0.9	1
18	PSI-RA: A parallel sparse index for read alignment on genomes **2010**,		1
17	Optimizing Link Assignment to Enhance Service in Probabilistic Network **2010**,		1
16	SUBTREE TRANSFER DISTANCE FOR DEGREE-D PHYLOGENIES. *International Journal of Foundations of Computer Science*, **2004**, 15, 893-909	0.6	1
15	Breaking a time-and-space barrier in constructing full-text indices		1
14	APPROXIMATING THE NEAREST NEIGHBOR INTERCHARGE DISTANCE FOR NON-UNIFORM-DEGREE EVOLUTIONARY TREES. *International Journal of Foundations of Computer Science*, **2001**, 12, 533-550	0.6	1
13	Dictionary Matching with Uneven Gaps. *Lecture Notes in Computer Science*, **2015**, 247-260	0.9	1
12	On Independence Domination. *Lecture Notes in Computer Science*, **2013**, 183-194	0.9	1
11	Efficient Generation of Top-k Procurements in a Multi-item Auction. *Lecture Notes in Computer Science*, **2016**, 181-193	0.9	1

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10	On Complexities of Minus Domination. *Lecture Notes in Computer Science*, **2013**, 178-189	0.9	1
9	Reconstructing One-Articulated Networks with Distance Matrices. *Lecture Notes in Computer Science*, **2017**, 34-45	0.9	0
8	MetaSMC: a coalescent-based shotgun sequence simulator for evolving microbial populations. *Bioinformatics*, **2019**, 35, 1677-1685	7.2	0
7	Edge-clique covers of the tensor product. *Theoretical Computer Science*, **2015**, 607, 68-74	1.1	
6	Compressed Persistent Index for Efficient Rank/Select Queries. *Lecture Notes in Computer Science*, **2013**, 402-414	0.9	
5	On the Grundy number of Cameron graphs. *Electronic Notes in Discrete Mathematics*, **2017**, 63, 503-516	0.3	
4	Approximating Dynamic Weighted Vertex Cover with Soft Capacities. *Algorithmica*,1	0.9	
3	Improved Phylogeny Comparisons: Non-shared Edges, Nearest Neighbor Interchanges, and Subtree Transfers. *Lecture Notes in Computer Science*, **2000**, 527-538	0.9	
2	Convex Independence in Permutation Graphs. *Lecture Notes in Computer Science*, **2016**, 710-717	0.9	
1	A framework for designing space-efficient dictionaries for parameterized and order-preserving matching. *Theoretical Computer Science*, **2021**, 854, 52-62	1.1	