Veli MÃ¤kinen

List of Publications by Year
in descending order

36 papers	1,949 citations	687363 13 h-index	454955 30 g-index
40 all docs	40 docs citations	40 times ranked	956 citing authors

#	Article	IF	Citations
1	Compressed full-text indexes. ACM Computing Surveys, 2007, 39, 2.	23.0	545
2	Compressed representations of sequences and full-text indexes. ACM Transactions on Algorithms, 2007, 3, 20.	1.0	271
3	Indexing Graphs for Path Queries with Applications in Genome Research. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 375-388.	3.0	237
4	Storage and Retrieval of Highly Repetitive Sequence Collections. Journal of Computational Biology, 2010, 17, 281-308.	1.6	160
5	Rank and select revisited and extended. Theoretical Computer Science, 2007, 387, 332-347.	0.9	122
6	Faster entropy-bounded compressed suffix trees. Theoretical Computer Science, 2009, 410, 5354-5364.	0.9	80
7	Dynamic entropy-compressed sequences and full-text indexes. ACM Transactions on Algorithms, 2008, 4, 1-38.	1.0	76
8	Transposition invariant string matching. Journal of Algorithms, 2005, 56, 124-153.	0.9	34
9	Implicit Compression Boosting with Applications to Self-indexing. , 2007, , 229-241.		31
10	Towards pan-genome read alignment to improve variation calling. BMC Genomics, 2018, 19, 87.	2.8	29
11	On the complexity of Minimum Path Cover with Subpath Constraints for multi-assembly. BMC Bioinformatics, 2014, 15, S5.	2.6	23
12	Fast in-memory XPath search using compressed indexes. , 2010, , .		21
13	Gap Filling as Exact Path Length Problem. Journal of Computational Biology, 2016, 23, 347-361.	1.6	17
14	Space Efficient String Mining under Frequency Constraints. , 2008, , .		16
15	Advantages of Backward Searching â€" Efficient Secondary Memory and Distributed Implementation of Compressed Suffix Arrays. Lecture Notes in Computer Science, 2004, , 681-692.	1.3	16
16	A SIMPLE ALPHABET-INDEPENDENT FM-INDEX. International Journal of Foundations of Computer Science, 2006, 17, 1365-1384.	1.1	15
17	Fast inâ€memory XPath search using compressed indexes. Software - Practice and Experience, 2015, 45, 399-434.	3.6	15
18	An(other) Entropy-Bounded Compressed Suffix Tree. , 2008, , 152-165.		15

#	Article	IF	Citations
19	Indexing Finite Language Representation of Population Genotypes. Lecture Notes in Computer Science, 2011, , 270-281.	1.3	14
20	Using Minimum Path Cover to Boost Dynamic Programming on DAGs: Co-linear Chaining Extended. Lecture Notes in Computer Science, 2018, , 105-121.	1.3	13
21	Rotation and lighting invariant template matching. Information and Computation, 2007, 205, 1096-1113.	0.7	12
22	Evaluating approaches to find exon chains based on long reads. Briefings in Bioinformatics, 2018, 19, bbw137.	6.5	11
23	FLEXIBLE MUSIC RETRIEVAL IN SUBLINEAR TIME. International Journal of Foundations of Computer Science, 2006, 17, 1345-1364.	1.1	9
24	Filtering methods for content-based retrieval on indexed symbolic music databases. Information Retrieval, 2010, 13, 1-21.	2.0	9
25	Linear time minimum segmentation enables scalable founder reconstruction. Algorithms for Molecular Biology, 2019, 14, 12.	1.2	9
26	Bidirectional Variable-Order de Bruijn Graphs. International Journal of Foundations of Computer Science, 2018, 29, 1279-1295.	1.1	8
27	Applying the Positional Burrowsâ€"Wheeler Transform to all-pairs Hamming distance. Information Processing Letters, 2019, 146, 17-19.	0.6	7
28	Founder reconstruction enables scalable and seamless pangenomic analysis. Bioinformatics, 2021, 37, 4611-4619.	4.1	7
29	On using Longer RNA-seq Reads to Improve Transcript Prediction Accuracy. , 2016, , .		6
30	Peak alignment using restricted edit distances. New Biotechnology, 2007, 24, 337-342.	2.7	5
31	Linear Time Maximum Segmentation Problems in Column Stream Model. Lecture Notes in Computer Science, 2019, , 322-336.	1.3	4
32	Multi-pattern matching with bidirectional indexes â˜† â˜†Preliminary version of this article appeared in COCOON 2012 [12].. Journal of Discrete Algorithms, 2014, 24, 26-39.	0.7	2
33	Variant genotyping with gap filling. PLoS ONE, 2017, 12, e0184608.	2.5	2
34	Linear Time Construction ofÂIndexable Elastic Founder Graphs. Lecture Notes in Computer Science, 2022, , 480-493.	1.3	2
35	Distributed hybrid-indexing of compressed pan-genomes for scalable and fast sequence alignment. PLoS ONE, 2021, 16, e0255260.	2.5	1
36	Tailoring r-index for Document Listing Towards Metagenomics Applications. Lecture Notes in Computer Science, 2020, , 291-306.	1.3	0