

Shmuel T Klein

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6930691/publications.pdf>

Version: 2024-02-01

88
papers

1,036
citations

566801

15
h-index

500791

28
g-index

90
all docs

90
docs citations

90
times ranked

331
citing authors

#	ARTICLE	IF	CITATIONS
1	Parallel Huffman Decoding with Applications to JPEG Files. Computer Journal, 2003, 46, 487-497.	1.5	102
2	The design of a similarity based deduplication system. , 2009, , .		77
3	Robust universal complete codes for transmission and compression. Discrete Applied Mathematics, 1996, 64, 31-55.	0.5	74
4	Storing text retrieval systems on CD-ROM: compression and encryption considerations. ACM Transactions on Information Systems, 1989, 7, 230-245.	3.8	53
5	Parallel Lempel Ziv coding. Discrete Applied Mathematics, 2005, 146, 180-191.	0.5	53
6	On the Usefulness of Fibonacci Compression Codes. Computer Journal, 2010, 53, 701-716.	1.5	52
7	Compression of correlated bit-vectors. Information Systems, 1991, 16, 387-400.	2.4	49
8	Bidirectional Huffman Coding. Computer Journal, 1990, 33, 296-307.	1.5	43
9	Is Huffman coding dead?. Computing (Vienna/New York), 1993, 50, 279-296.	3.2	37
10	The number of fixed points of the majority rule. Discrete Mathematics, 1988, 70, 295-302.	0.4	33
11	Novel Compression of Sparse Bit-Strings " Preliminary Report. , 1985, , 169-183.		33
12	A systematic approach to compressing a full-text retrieval system. Information Processing and Management, 1992, 28, 795-806.	5.4	27
13	Skeleton Trees for the Efficient Decoding of Huffman Encoded Texts. Information Retrieval, 2000, 3, 7-23.	1.6	27
14	Complexity aspects of guessing prefix codes. Algorithmica, 1994, 12, 409-419.	1.0	23
15	Using bitmaps for medium sized information retrieval systems. Information Processing and Management, 1990, 26, 525-533.	5.4	21
16	Compression, information theory, and grammars: a unified approach. ACM Transactions on Information Systems, 1990, 8, 27-49.	3.8	21
17	Pattern matching in Huffman encoded texts. Information Processing and Management, 2005, 41, 829-841.	5.4	18
18	Bounding the Depth of Search Trees. Computer Journal, 1993, 36, 668-678.	1.5	16

#	ARTICLE	IF	CITATIONS
19	Random access to Fibonacci encoded files. Discrete Applied Mathematics, 2016, 212, 115-128.	0.5	16
20	COMPRESSED PATTERN MATCHING IN JPEG IMAGES. International Journal of Foundations of Computer Science, 2006, 17, 1297-1306.	0.8	14
21	Space- and time-efficient decoding with canonical huffman trees. Lecture Notes in Computer Science, 1997, , 65-75.	1.0	14
22	Should one always use repeated squaring for modular exponentiation?. Information Processing Letters, 2008, 106, 232-237.	0.4	13
23	Compressed Matching in Dictionaries. Algorithms, 2011, 4, 61-74.	1.2	12
24	USING ALIGNMENT FOR MULTILINGUAL TEXT COMPRESSION. International Journal of Foundations of Computer Science, 2008, 19, 89-101.	0.8	11
25	Accelerating Boyer Moore Searches on Binary Texts. , 2007, , 130-143.		11
26	On improving Tunstall codes. Information Processing and Management, 2011, 47, 777-785.	5.4	10
27	A space efficient direct access data structure. Journal of Discrete Algorithms, 2017, 43, 26-37.	0.7	10
28	Forward Looking Huffman Coding. Theory of Computing Systems, 2021, 65, 593-612.	0.7	10
29	SEMI-LOSSLESS TEXT COMPRESSION. International Journal of Foundations of Computer Science, 2005, 16, 1167-1178.	0.8	9
30	Using Fibonacci Compression Codes as Alternatives to Dense Codes. Proceedings of the Data Compression Conference, 2008, , .	0.0	9
31	Compressed matching for feature vectors. Theoretical Computer Science, 2016, 638, 52-62.	0.5	9
32	Simple Bayesian Model for Bitmap Compression. Information Retrieval, 2000, 1, 315-328.	1.6	8
33	Similarity based deduplication with small data chunks. Discrete Applied Mathematics, 2016, 212, 10-22.	0.5	8
34	Context Sensitive Rewriting Codes for Flash Memory. Computer Journal, 2019, 62, 20-29.	1.5	8
35	Weighted Adaptive Huffman Coding. , 2020, , .		7
36	Models of bitmap generation: A systematic approach to bitmap compression. Information Processing and Management, 1992, 28, 735-748.	5.4	5

#	ARTICLE	IF	CITATIONS
37	An overhead reduction technique for mega-state compression schemes. <i>Information Processing and Management</i> , 1997, 33, 745-760.	5.4	5
38	Information retrieval from annotated texts. <i>Journal of the Association for Information Science and Technology</i> , 1999, 50, 845-854.	1.2	5
39	Compressed Delta Encoding for LZSS Encoded Files. , 2007, , .		5
40	Huffman Coding with Non-Sorted Frequencies. <i>Mathematics in Computer Science</i> , 2011, 5, 171-178.	0.2	5
41	Practical fixed length Lempel-Ziv coding. <i>Discrete Applied Mathematics</i> , 2014, 163, 326-333.	0.5	5
42	Integrated encryption in dynamic arithmetic compression. <i>Information and Computation</i> , 2021, 279, 104617.	0.5	5
43	Is Huffman coding dead? (extended abstract). , 1993, , .		4
44	Fast Decoding of Fibonacci Encoded Texts. , 2007, , .		4
45	MODELING DELTA ENCODING OF COMPRESSED FILES. <i>International Journal of Foundations of Computer Science</i> , 2008, 19, 137-146.	0.8	4
46	Accelerated partial decoding in wavelet trees. <i>Discrete Applied Mathematics</i> , 2020, 274, 2-10.	0.5	4
47	On the use of negation in Boolean IR queries. <i>Information Processing and Management</i> , 2009, 45, 298-311.	5.4	3
48	Accelerating Boyer-Moore searches on binary texts. <i>Theoretical Computer Science</i> , 2009, 410, 3563-3571.	0.5	3
49	The String-to-Dictionary Matching Problem. , 2011, , .		3
50	Improving deduplication techniques by accelerating remainder calculations. <i>Discrete Applied Mathematics</i> , 2014, 163, 307-315.	0.5	3
51	On the Randomness of Compressed Data. <i>Information (Switzerland)</i> , 2020, 11, 196.	1.7	3
52	Smaller Compressed Suffix Arrays. <i>Computer Journal</i> , 2021, 64, 721-730.	1.5	3
53	Optimal skeleton and reduced Huffman trees. <i>Theoretical Computer Science</i> , 2021, 852, 157-171.	0.5	3
54	Backward Weighted Coding. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
55	Generative models for bitmap sets with compression applications. , 1991, , .		2
56	Improved Alignment-Based Algorithm for Multilingual Text Compression. Mathematics in Computer Science, 2013, 7, 137-153.	0.2	2
57	Improving Static Compression Schemes by Alphabet Extension. Lecture Notes in Computer Science, 2000, , 210-221.	1.0	2
58	Searching for a set of correlated patterns. Journal of Discrete Algorithms, 2007, 5, 149-161.	0.7	1
59	Processing queries with metrical constraints in XML-based IR systems. Journal of the Association for Information Science and Technology, 2008, 59, 86-97.	2.6	1
60	Huffman Coding with Non-sorted Frequencies. Proceedings of the Data Compression Conference, 2008, , .	0.0	1
61	Boosting the Compression of Rewriting on Flash Memory. , 2014, , .		1
62	Direct Processing of Compressed SIFT Feature Vectors. , 2014, , .		1
63	Layouts for improved hierarchical parallel computations. Journal of Discrete Algorithms, 2014, 28, 23-30.	0.7	1
64	A Space Efficient Direct Access Data Structure. , 2016, , .		1
65	Selective Dynamic Compression. , 2019, , .		1
66	Better Than Optimal Huffman Coding?. , 2019, , .		1
67	Enhanced Context Sensitive Flash Codes. Computer Journal, 0, , .	1.5	1
68	Integrated Encryption in Dynamic Arithmetic Compression. Lecture Notes in Computer Science, 2017, , 143-154.	1.0	1
69	On the Randomness of Compressed Data. , 2019, , .		1
70	New Approaches for Context Sensitive Flash Codes. Lecture Notes in Computer Science, 2019, , 45-57.	1.0	1
71	Non-Binary Robust Universal Variable Length Codes. , 2020, , .		1
72	Combining Forward Compression with PPM. SN Computer Science, 2022, 3, 1.	2.3	1

#	ARTICLE	IF	CITATIONS
73	Weighted forward looking adaptive coding. Theoretical Computer Science, 2022, 930, 86-99.	0.5	1
74	Efficient recompression techniques for dynamic full-text retrieval systems. , 1995, , .		0
75	The String-to-Dictionary Matching Problem. Computer Journal, 2012, 55, 1347-1356.	1.5	0
76	On the connection between Hamming codes, Heapsort and other methods. Information Processing Letters, 2013, 113, 617-620.	0.4	0
77	Lossless Compression of Rotated Maskless Lithography Images. , 2013, , .		0
78	Enhanced Direct Access to Huffman Encoded Files. , 2015, , .		0
79	Analysis of a Rewriting Compression System for Flash Memory. , 2016, , .		0
80	Hierarchical Parallel Evaluation of a Hamming Code. Algorithms, 2017, 10, 50.	1.2	0
81	Fibonacci Based Compressed Suffix Array. , 2018, , .		0
82	Compressed Hierarchical Clustering. , 2018, , .		0
83	Dynamic determination of variable sizes of chunks in a deduplication system. Discrete Applied Mathematics, 2020, 274, 81-91.	0.5	0
84	Approximate Hashing for Bioinformatics. Lecture Notes in Computer Science, 2021, , 178-189.	1.0	0
85	Identifying Pairs of Terms with Strong Semantic Connections in a Textbook Index. , 2015, , .		0
86	Measuring and Avoiding Information Loss During Concept Import from a Source to a Target Ontology. , 2019, , .		0
87	Selective Weighted Adaptive Coding. , 2022, , .		0
88	A Huffman Code Based Crypto-System. , 2022, , .		0