Shmuel T Klein

List of Publications by Citations

70 papers	689 citations	15 h-index	24 g-index
90 ext. papers	853 ext. citations	1.8 avg, IF	4.13 L-index

#	Paper	IF	Citations
70	Parallel Huffman Decoding with Applications to JPEG Files. *Computer Journal*, **2003**, 46, 487-497	1.3	70
69	The design of a similarity based deduplication system **2009**,		53
68	Robust universal complete codes for transmission and compression. *Discrete Applied Mathematics*, **1996**, 64, 31-55	1	53
67	Storing text retrieval systems on CD-ROM: compression and encryption considerations. *ACM Transactions on Information Systems*, **1989**, 7, 230-245	4.8	44
66	Compression of correlated bit-vectors. *Information Systems*, **1991**, 16, 387-400	2.7	36
65	Bidirectional Huffman Coding. *Computer Journal*, **1990**, 33, 296-307	1.3	36
64	On the Usefulness of Fibonacci Compression Codes. *Computer Journal*, **2010**, 53, 701-716	1.3	33
63	The number of fixed points of the majority rule. *Discrete Mathematics*, **1988**, 70, 295-302	0.7	30
62	Is Huffman coding dead?. *Computing (Vienna/New York)*, **1993**, 50, 279-296	2.2	23
61	Parallel Lempel Ziv coding. *Discrete Applied Mathematics*, **2005**, 146, 180-191	1	21
60	Novel Compression of Sparse Bit-Strings Preliminary Report **1985**, 169-183		21
59	Skeleton Trees for the Efficient Decoding of Huffman Encoded Texts. *Information Retrieval*, **2000**, 3, 7-23	1.8	16
58	A systematic approach to compressing a full-text retrieval system. *Information Processing and Management*, **1992**, 28, 795-806	6.3	16
57	Bounding the Depth of Search Trees. *Computer Journal*, **1993**, 36, 668-678	1.3	15
56	Complexity aspects of guessing prefix codes. *Algorithmica*, **1994**, 12, 409-419	0.9	15
55	Using bitmaps for medium sized information retrieval systems. *Information Processing and Management*, **1990**, 26, 525-533	6.3	15
54	Compression, information theory, and grammars: a unified approach. *ACM Transactions on Information Systems*, **1990**, 8, 27-49	4.8	15

53	Pattern matching in Huffman encoded texts. *Information Processing and Management*, **2005**, 41, 829-841	6.3	12
52	Random access to Fibonacci encoded files. *Discrete Applied Mathematics*, **2016**, 212, 115-128	1	12
51	Should one always use repeated squaring for modular exponentiation?. *Information Processing Letters*, **2008**, 106, 232-237	0.8	10
50	COMPRESSED PATTERN MATCHING IN JPEG IMAGES. *International Journal of Foundations of Computer Science*, **2006**, 17, 1297-1306	0.6	10
49	A space efficient direct access data structure. *Journal of Discrete Algorithms*, **2017**, 43, 26-37		9
48	Compressed Matching in Dictionaries. *Algorithms*, **2011**, 4, 61-74	1.8	9
47	USING ALIGNMENT FOR MULTILINGUAL TEXT COMPRESSION. *International Journal of Foundations of Computer Science*, **2008**, 19, 89-101	0.6	8
46	Accelerating Boyer Moore Searches on Binary Texts **2007**, 130-143		8
45	Similarity based deduplication with small data chunks. *Discrete Applied Mathematics*, **2016**, 212, 10-22	1	6
44	On improving Tunstall codes. *Information Processing and Management*, **2011**, 47, 777-785	6.3	6
43	SEMI-LOSSLESS TEXT COMPRESSION. *International Journal of Foundations of Computer Science*, **2005**, 16, 1167-1178	0.6	6
42	Space- and time-efficient decoding with canonical huffman trees. *Lecture Notes in Computer Science* , **1997**, 65-75	0.9	6
41	Compressed matching for feature vectors. *Theoretical Computer Science*, **2016**, 638, 52-62	1.1	5
40	Using Fibonacci Compression Codes as Alternatives to Dense Codes. *Proceedings of the Data Compression Conference*, **2008**,		5
39	Information retrieval from annotated texts. *Journal of the Association for Information Science and Technology*, **1999**, 50, 845-854		5
38	Simple Bayesian Model for Bitmap Compression. *Information Retrieval*, **2000**, 1, 315-328	1.8	4
37	**2020**,		4
36	Context Sensitive Rewriting Codes for Flash Memory *Computer Journal*, **2019**, 62, 20-29	1.3	3

35	Practical fixed length Lempel-Ziv coding. *Discrete Applied Mathematics*, **2014**, 163, 326-333	1	3
34	Improving deduplication techniques by accelerating remainder calculations. *Discrete Applied Mathematics*, **2014**, 163, 307-315	1	3
33	An overhead reduction technique for mega-state compression schemes. *Information Processing and Management*, **1997**, 33, 745-760	6.3	3
32	Is Huffman coding dead? (extended abstract) **1993**,		3
31	Models of bitmap generation: A systematic approach to bitmap compression. *Information Processing and Management*, **1992**, 28, 735-748	6.3	3
30	Accelerated partial decoding in wavelet trees. *Discrete Applied Mathematics*, **2020**, 274, 2-10	1	3
29	Huffman Coding with Non-Sorted Frequencies. *Mathematics in Computer Science*, **2011**, 5, 171-178	0.5	2
28	On the use of negation in Boolean IR queries. *Information Processing and Management*, **2009**, 45, 298-311	6.3	2
27	Accelerating Boyer-Moore searches on binary texts. *Theoretical Computer Science*, **2009**, 410, 3563-3571	1.1	2
26	Compressed Delta Encoding for LZSS Encoded Files **2007**,		2
25	Improving Static Compression Schemes by Alphabet Extension. *Lecture Notes in Computer Science*, **2000**, 210-221	0.9	2
24	Forward Looking Huffman Coding. *Theory of Computing Systems*, **2021**, 65, 593-612	0.6	2
23	Optimal skeleton and reduced Huffman trees. *Theoretical Computer Science*, **2021**, 852, 157-171	1.1	2
22	On the Randomness of Compressed Data. *Information (Switzerland)*, **2020**, 11, 196	2.6	1
21	Boosting the Compression of Rewriting on Flash Memory **2014**,		1
20	Layouts for improved hierarchical parallel computations. *Journal of Discrete Algorithms*, **2014**, 28, 23-30		1
19	Improved Alignment-Based Algorithm for Multilingual Text Compression. *Mathematics in Computer Science*, **2013**, 7, 137-153	0.5	1
18	The String-to-Dictionary Matching Problem **2011**,		1

17	MODELING DELTA ENCODING OF COMPRESSED FILES. *International Journal of Foundations of Computer Science*, **2008**, 19, 137-146	0.6	1
16	Processing queries with metrical constraints in XML-based IR systems. *Journal of the Association for Information Science and Technology*, **2008**, 59, 86-97		1
15	Integrated Encryption in Dynamic Arithmetic Compression. *Lecture Notes in Computer Science*, **2017** , 143-154	0.9	1
14	Optimal Skeleton Huffman Trees. *Lecture Notes in Computer Science*, **2017**, 241-253	0.9	1
13	Selective Dynamic Compression **2019**,		1
12	Integrated encryption in dynamic arithmetic compression. *Information and Computation*, **2021**, 279, 104618	0.8	1
11	Backward Weighted Coding **2021**,		1
10	New Approaches for Context Sensitive Flash Codes. *Lecture Notes in Computer Science*, **2019**, 45-57	0.9	0
9	Smaller Compressed Suffix Arrays *Computer Journal*, **2021**, 64, 721-730	1.3	0
8	Combining Forward Compression with PPM. *SN Computer Science*, **2022**, 3, 1	2	0
7	On the connection between Hamming codes, Heapsort and other methods. *Information Processing Letters*, **2013**, 113, 617-620	0.8	
6	Hierarchical Parallel Evaluation of a Hamming Code. *Algorithms*, **2017**, 10, 50	1.8	
5	The String-to-Dictionary Matching Problem. *Computer Journal*, **2012**, 55, 1347-1356	1.3	
4	Searching for a set of correlated patterns. *Journal of Discrete Algorithms*, **2007**, 5, 149-161		
3	A New Approach to Alphabet Extension for Improving Static Compression Schemes. *Lecture Notes in Computer Science*, **2014**, 197-212	0.9	
2	Dynamic determination of variable sizes of chunks in a deduplication system. *Discrete Applied Mathematics*, **2020**, 274, 81-91	1	
1	Approximate Hashing for Bioinformatics. *Lecture Notes in Computer Science*, **2021**, 178-189	0.9	