

Harry Buhrman

List of Publications by Year in descending order

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52
papers

3,806
citations

331670

21
h-index

233421

45
g-index

53
all docs

53
docs citations

53
times ranked

2272
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse Selfreducible Sets and Nonuniform Lower Bounds. <i>Algorithmica</i> , 2019, 81, 179-200.	1.3	0
2	Catalytic Space: Non-determinism and Hierarchy. <i>Theory of Computing Systems</i> , 2018, 62, 116-135.	1.1	5
3	The quantum technologies roadmap: a European community view. <i>New Journal of Physics</i> , 2018, 20, 080201.	2.9	358
4	Clean Quantum and Classical Communication Protocols. <i>Physical Review Letters</i> , 2016, 117, 230503.	7.8	0
5	Towards a Reverse Newman's Theorem in Interactive Information Complexity. <i>Algorithmica</i> , 2016, 76, 749-781.	1.3	21
6	Quantum communication complexity advantage implies violation of a Bell inequality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3191-3196.	7.1	34
7	Entanglement-Assisted Zero-Error Source-Channel Coding. <i>IEEE Transactions on Information Theory</i> , 2015, 61, 1124-1138.	2.4	7
8	Computing with a full memory. , 2014, , .		11
9	A Realistic Model Under Which the Genetic Code is Optimal. <i>Journal of Molecular Evolution</i> , 2013, 77, 170-184.	1.8	13
10	Towards a Reverse Newman's Theorem in Interactive Information Complexity. , 2013, , .		12
11	Violating the Shannon capacity of metric graphs with entanglement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19227-19232.	7.1	8
12	Classical Simulation of Entanglement Swapping with Bounded Communication. <i>Physical Review Letters</i> , 2012, 109, 100401.	7.8	23
13	Reductions to the Set of Random Strings: The Resource-Bounded Case. <i>Lecture Notes in Computer Science</i> , 2012, , 88-99.	1.3	5
14	Near-Optimal and Explicit Bell Inequality Violations. , 2011, , .		19
15	Some Mathematical Refinements Concerning Error Minimization in the Genetic Code. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011, 8, 1358-1372.	3.0	15
16	Non-Uniform Reductions. <i>Theory of Computing Systems</i> , 2010, 47, 317-341.	1.1	6
17	Derandomizing from Random Strings. , 2010, , .		9
18	Nonlocality and communication complexity. <i>Reviews of Modern Physics</i> , 2010, 82, 665-698.	45.6	396

#	ARTICLE	IF	CITATIONS
19	Arbitrarily little knowledge can give a quantum advantage for nonlocal tasks. <i>Physical Review A</i> , 2009, 80, .	2.5	1
20	The first peptides: The evolutionary transition between prebiotic amino acids and early proteins. <i>Journal of Theoretical Biology</i> , 2009, 261, 531-539.	1.7	74
21	Quantum Property Testing. <i>SIAM Journal on Computing</i> , 2008, 37, 1387-1400.	1.0	27
22	Randomised Individual Communication Complexity. , 2008, , .		6
23	Robust Polynomials and Quantum Algorithms. <i>Theory of Computing Systems</i> , 2007, 40, 379-395.	1.1	34
24	Limit on Nonlocality in Any World in Which Communication Complexity Is Not Trivial. <i>Physical Review Letters</i> , 2006, 96, 250401.	7.8	275
25	Power from Random Strings. <i>SIAM Journal on Computing</i> , 2006, 35, 1467-1493.	1.0	77
26	Implications of superstrong non-locality for cryptography. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 1919-1932.	2.1	34
27	What can be efficiently reduced to the Kolmogorov-random strings?. <i>Annals of Pure and Applied Logic</i> , 2006, 138, 2-19.	0.5	22
28	Enumerations of the Kolmogorov function. <i>Journal of Symbolic Logic</i> , 2006, 71, 501-528.	0.5	17
29	Multipartite nonlocal quantum correlations resistant to imperfections. <i>Physical Review A</i> , 2006, 73, .	2.5	5
30	One Bit of Advice. <i>Lecture Notes in Computer Science</i> , 2003, , 547-558.	1.3	4
31	Combinatorics and Quantum Nonlocality. <i>Physical Review Letters</i> , 2003, 91, 047903.	7.8	28
32	Distributed Quantum Computing. <i>Lecture Notes in Computer Science</i> , 2003, , 1-20.	1.3	41
33	Complexity measures and decision tree complexity: a survey. <i>Theoretical Computer Science</i> , 2002, 288, 21-43.	0.9	394
34	Quantum Entanglement and Communication Complexity. <i>SIAM Journal on Computing</i> , 2001, 30, 1829-1841.	1.0	86
35	Resource-Bounded Kolmogorov Complexity Revisited. <i>SIAM Journal on Computing</i> , 2001, 31, 887-905.	1.0	42
36	Quantum lower bounds by polynomials. <i>Journal of the ACM</i> , 2001, 48, 778-797.	2.2	356

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37	Quantum Fingerprinting. <i>Physical Review Letters</i> , 2001, 87, 167902.	7.8	739
38	Separating Complexity Classes Using Autoreducibility. <i>SIAM Journal on Computing</i> , 2000, 29, 1497-1520.	1.0	29
39	Randomness is Hard. <i>SIAM Journal on Computing</i> , 2000, 30, 1485-1501.	1.0	10
40	A Generalization of Resource-Bounded Measure, with Application to the BPP vs. EXP Problem. <i>SIAM Journal on Computing</i> , 2000, 30, 576-601.	1.0	17
41	Multipart quantum communication complexity. <i>Physical Review A</i> , 1999, 60, 2737-2741.	2.5	83
42	Two Queries. <i>Journal of Computer and System Sciences</i> , 1999, 59, 182-194.	1.2	18
43	Space-efficient Routing Tables for Almost All Networks and the Incompressibility Method. <i>SIAM Journal on Computing</i> , 1999, 28, 1414-1432.	1.0	15
44	Kolmogorov Random Graphs and the Incompressibility Method. <i>SIAM Journal on Computing</i> , 1999, 29, 590-599.	1.0	28
45	Splittings, Robustness, and Structure of Complete Sets. <i>SIAM Journal on Computing</i> , 1998, 27, 637-653.	1.0	17
46	Complete Sets and Structure in Subrecursive Classes. <i>Lecture Notes in Logic</i> , 1998, , 45-77.	0.1	6
47	Substituting quantum entanglement for communication. <i>Physical Review A</i> , 1997, 56, 1201-1204.	2.5	296
48	An Excursion to the Kolmogorov Random Strings. <i>Journal of Computer and System Sciences</i> , 1997, 54, 393-399.	1.2	16
49	P-Selective Self-Reducible Sets: A New Characterization of P. <i>Journal of Computer and System Sciences</i> , 1996, 53, 210-217.	1.2	17
50	Twenty questions to a p-selector. <i>Information Processing Letters</i> , 1993, 48, 201-204.	0.6	14
51	The relative power of logspace and polynomial time reductions. <i>Computational Complexity</i> , 1993, 3, 231-244.	0.3	7
52	Completeness for nondeterministic complexity classes. <i>Mathematical Systems Theory</i> , 1991, 24, 179-200.	0.5	29