Michael Langberg

List of Publications by Year in descending order

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516561 526166 1,203 69 16 27 citations g-index h-index papers 69 69 69 584 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Approximation Algorithms for Maximization Problems Arising in Graph Partitioning. Journal of Algorithms, 2001, 41, 174-211.	0.9	112
2	An Equivalence Between Network Coding and Index Coding. IEEE Transactions on Information Theory, 2015, 61, 2478-2487.	1.5	91
3	Local graph coloring and index coding. , 2013, , .		72
4	On the Hardness of Approximating the Network Coding Capacity. IEEE Transactions on Information Theory, 2011, 57, 1008-1014.	1.5	52
5	Communication Efficient Secret Sharing. IEEE Transactions on Information Theory, 2016, 62, 7195-7206.	1.5	51
6	On the hardness of approximating the network coding capacity. , 2008, , .		43
7	The RPR2 rounding technique for semidefinite programs. Journal of Algorithms, 2006, 60, 1-23.	0.9	40
8	f-Sensitivity Distance Oracles and Routing Schemes. Algorithmica, 2012, 63, 861-882.	1.0	35
9	Network Codes Resilient to Jamming and Eavesdropping. IEEE/ACM Transactions on Networking, 2014, 22, 1978-1987.	2.6	34
10	Adversarial models and resilient schemes for network coding. , 2008, , .		33
11	Oblivious Communication Channels and Their Capacity. IEEE Transactions on Information Theory, 2008, 54, 424-429.	1.5	32
12	On the multiple unicast network coding, conjecture. , 2009, , .		32
13	Improved approximation of Max-Cut on graphs of bounded degree. Journal of Algorithms, 2002, 43, 201-219.	0.9	30
14	Graph theory versus minimum rank for index coding. , 2014, , .		30
15	Universal rewriting in constrained memories. , 2009, , .		28
16	Upper Bounds on the Capacity of Binary Channels With Causal Adversaries. IEEE Transactions on Information Theory, 2013, 59, 3753-3763.	1.5	27
17	Communicating the Sum of Sources Over a Network. IEEE Journal on Selected Areas in Communications, 2013, 31, 655-665.	9.7	27
18	Graphs with Tiny Vector Chromatic Numbers and Huge Chromatic Numbers. SIAM Journal on Computing, 2004, 33, 1338-1368.	0.8	26

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19	Constant-Weight Gray Codes for Local Rank Modulation. IEEE Transactions on Information Theory, 2011, 57, 7431-7442.	1.5	26
20	A Characterization of the Capacity of Online (causal) Binary Channels., 2015,,.		23
21	Sequence reconstruction for Grassmann graphs and permutations. , 2013, , .		21
22	Asymmetric Error Correction and Flash-Memory Rewriting Using Polar Codes. IEEE Transactions on Information Theory, 2016, 62, 4024-4038.	1.5	21
23	Sufficiently Myopic Adversaries Are Blind. IEEE Transactions on Information Theory, 2019, 65, 5718-5736.	1.5	21
24	Communicating the sum of sources in a 3-sources/3-terminals network., 2009,,.		20
25	Codes Against Online Adversaries: Large Alphabets. IEEE Transactions on Information Theory, 2013, 59, 3304-3316.	1.5	19
26	A note on approximating Max-Bisection on regular graphs. Information Processing Letters, 2001, 79, 181-188.	0.4	18
27	Coding against delayed adversaries. , 2010, , .		18
28	Beating the Gilbert-Varshamov bound for online channels. , 2011, , .		14
29	Improved upper bounds on the capacity of binary channels with causal adversaries. , 2012, , .		14
30	Coded Cooperative Data Exchange Problem for General Topologies. IEEE Transactions on Information Theory, 2015, 61, 5656-5669.	1.5	13
31	A Characterization of the Number of Subsequences Obtained via the Deletion Channel. IEEE Transactions on Information Theory, 2015, 61, 2300-2312.	1.5	12
32	Generalized Gray Codes for Local Rank Modulation. IEEE Transactions on Information Theory, 2013, 59, 6664-6673.	1.5	10
33	Trajectory Codes for Flash Memory. IEEE Transactions on Information Theory, 2013, 59, 4530-4541.	1.5	10
34	A bit of delay is sufficient and stochastic encoding is necessary to overcome online adversarial erasures., 2016,,.		9
35	Coding for the \$oldsymbol ell _infty \$ -Limited Permutation Channel. IEEE Transactions on Information Theory, 2017, 63, 7676-7686.	1.5	9
36	The Unbounded Benefit of Encoder Cooperation for the k-User MAC. IEEE Transactions on Information Theory, 2018, 64, 3655-3678.	1.5	9

#	Article	IF	CITATIONS
37	Approximating Maximum Subgraphs without Short Cycles. SIAM Journal on Discrete Mathematics, 2010, 24, 255-269.	0.4	8
38	Routing for security in networks with adversarial nodes. , 2013, , .		8
39	Outer bounds and a functional study of the edge removal problem. , 2013, , .		7
40	On the Capacity Advantage of a Single Bit. , 2016, , .		7
41	Single-Unicast Secure Network Coding and Network Error Correction are as Hard as Multiple-Unicast Network Coding. IEEE Transactions on Information Theory, 2018, 64, 4496-4512.	1.5	7
42	One-shot capacity of discrete channels. , 2010, , .		6
43	Can negligible cooperation increase network reliability?. , 2016, , .		6
44	On tightness of an entropic region outer bound for network coding and the edge removal property. , 2016, , .		6
45	The capacity of online (causal) q-ary error-erasure channels. , 2016, , .		6
46	Symmetrizability for Myopic AVCs. , 2020, , .		6
47	Analysis of Incomplete Data andÂanÂIntrinsic-Dimension Helly Theorem. Discrete and Computational Geometry, 2008, 40, 537-560.	0.4	5
48	On an equivalence of the reduction of k-unicast to 2-unicast capacity and the edge removal property. , 2015, , .		5
49	Data movement in flash memories. , 2009, , .		4
50	Contraction and Expansion of Convex Sets. Discrete and Computational Geometry, 2009, 42, 594-614.	0.4	4
51	Generalized Gray codes for local rank modulation. , 2011, , .		4
52	Can Negligible Rate Increase Network Reliability?. IEEE Transactions on Information Theory, 2018, 64, 4282-4293.	1.5	4
53	The Capacity of Online (Causal) \$q\$ -Ary Error-Erasure Channels. IEEE Transactions on Information Theory, 2019, 65, 3384-3411.	1.5	4
54	Reduced-Rank L1-Norm Principal-Component Analysis With Performance Guarantees. IEEE Transactions on Signal Processing, 2021, 69, 240-255.	3.2	4

#	Article	IF	Citations
55	A characterization of the capacity region for network coding with dependent sources., 2016,,.		3
56	Constructing cospectral graphs via a new form of graph product. Linear and Multilinear Algebra, 2018, 66, 1838-1852.	0.5	3
57	Optimal Universal Schedules for Discrete Broadcast. IEEE Transactions on Information Theory, 2008, 54, 4365-4372.	1.5	2
58	Data movement and aggregation in flash memories. , 2010, , .		2
59	Single-source/sink network error correction is as hard as multiple-unicast., 2014,,.		2
60	Secure Network Coding in the Setting in Which a Non-Source Node May Generate Random Keys. , 2019, ,		2
61	Edge removal in undirected networks. , 2021, , .		2
62	Is there a canonical network for network information theory?., 2014,,.		1
63	Can Negligihle Cooperation Increase Capacity? The Average-Error Case. , 2018, , .		1
64	The Edge-Removal Problem's Connections to the Zero-Error and \$delta\$ -Dependence Problems in Network Coding. IEEE Transactions on Information Theory, 2020, 66, 900-913.	1.5	1
65	Every Bit Counts: Second-Order Analysis of Cooperation in the Multiple-Access Channel. , 2021, , .		1
66	Error correcting code for flash memories. , 2013, , .		0
67	The Birthday Problem and Zero-Error List Codes. IEEE Transactions on Information Theory, 2021, 67, 5791-5803.	1.5	0
68	Negligible Cooperation: Contrasting the Maximal- and Average-Error Cases. IEEE Transactions on Information Theory, 2021, 67, 5885-5902.	1.5	0
69	Latency and Alphabet Size in the Context of Multicast Network Coding. IEEE Transactions on Information Theory, 2022, 68, 4289-4300.	1.5	0