

Michael Langberg

List of Publications by Year in descending order

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69
papers

1,203
citations

516561

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526166

27
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69
all docs

69
docs citations

69
times ranked

584
citing authors

#	ARTICLE	IF	CITATIONS
1	Latency and Alphabet Size in the Context of Multicast Network Coding. IEEE Transactions on Information Theory, 2022, 68, 4289-4300.	1.5	0
2	Reduced-Rank L1-Norm Principal-Component Analysis With Performance Guarantees. IEEE Transactions on Signal Processing, 2021, 69, 240-255.	3.2	4
3	Edge removal in undirected networks. , 2021, , .		2
4	Every Bit Counts: Second-Order Analysis of Cooperation in the Multiple-Access Channel. , 2021, , .		1
5	The Birthday Problem and Zero-Error List Codes. IEEE Transactions on Information Theory, 2021, 67, 5791-5803.	1.5	0
6	Negligible Cooperation: Contrasting the Maximal- and Average-Error Cases. IEEE Transactions on Information Theory, 2021, 67, 5885-5902.	1.5	0
7	The Edge-Removal Problem's Connections to the Zero-Error and δ -Dependence Problems in Network Coding. IEEE Transactions on Information Theory, 2020, 66, 900-913.	1.5	1
8	Symmetrizability for Myopic AVCs. , 2020, , .		6
9	Sufficiently Myopic Adversaries Are Blind. IEEE Transactions on Information Theory, 2019, 65, 5718-5736.	1.5	21
10	The Capacity of Online (Causal) q -Ary Error-Erasure Channels. IEEE Transactions on Information Theory, 2019, 65, 3384-3411.	1.5	4
11	Secure Network Coding in the Setting in Which a Non-Source Node May Generate Random Keys. , 2019, , .		2
12	Can Negligible Rate Increase Network Reliability?. IEEE Transactions on Information Theory, 2018, 64, 4282-4293.	1.5	4
13	The Unbounded Benefit of Encoder Cooperation for the k -User MAC. IEEE Transactions on Information Theory, 2018, 64, 3655-3678.	1.5	9
14	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
15	Constructing cospectral graphs via a new form of graph product. Linear and Multilinear Algebra, 2018, 66, 1838-1852.	0.5	3
16	Can Negligible Cooperation Increase Capacity? The Average-Error Case. , 2018, , .		1
17	Coding for the ℓ_∞ -Limited Permutation Channel. IEEE Transactions on Information Theory, 2017, 63, 7676-7686.	1.5	9
18	Can negligible cooperation increase network reliability?. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
19	A characterization of the capacity region for network coding with dependent sources. , 2016, , .		3
20	Asymmetric Error Correction and Flash-Memory Rewriting Using Polar Codes. IEEE Transactions on Information Theory, 2016, 62, 4024-4038.	1.5	21
21	On tightness of an entropic region outer bound for network coding and the edge removal property. , 2016, , .		6
22	Communication Efficient Secret Sharing. IEEE Transactions on Information Theory, 2016, 62, 7195-7206.	1.5	51
23	On the Capacity Advantage of a Single Bit. , 2016, , .		7
24	A bit of delay is sufficient and stochastic encoding is necessary to overcome online adversarial erasures. , 2016, , .		9
25	The capacity of online (causal) q-ary error-erasure channels. , 2016, , .		6
26	On an equivalence of the reduction of k-unicast to 2-unicast capacity and the edge removal property. , 2015, , .		5
27	A Characterization of the Number of Subsequences Obtained via the Deletion Channel. IEEE Transactions on Information Theory, 2015, 61, 2300-2312.	1.5	12
28	An Equivalence Between Network Coding and Index Coding. IEEE Transactions on Information Theory, 2015, 61, 2478-2487.	1.5	91
29	A Characterization of the Capacity of Online (causal) Binary Channels. , 2015, , .		23
30	Coded Cooperative Data Exchange Problem for General Topologies. IEEE Transactions on Information Theory, 2015, 61, 5656-5669.	1.5	13
31	Graph theory versus minimum rank for index coding. , 2014, , .		30
32	Single-source/sink network error correction is as hard as multiple-unicast. , 2014, , .		2
33	Network Codes Resilient to Jamming and Eavesdropping. IEEE/ACM Transactions on Networking, 2014, 22, 1978-1987.	2.6	34
34	Is there a canonical network for network information theory?. , 2014, , .		1
35	Upper Bounds on the Capacity of Binary Channels With Causal Adversaries. IEEE Transactions on Information Theory, 2013, 59, 3753-3763.	1.5	27
36	Error correcting code for flash memories. , 2013, , .		0

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37	Outer bounds and a functional study of the edge removal problem. , 2013, , .		7
38	Communicating the Sum of Sources Over a Network. IEEE Journal on Selected Areas in Communications, 2013, 31, 655-665.	9.7	27
39	Codes Against Online Adversaries: Large Alphabets. IEEE Transactions on Information Theory, 2013, 59, 3304-3316.	1.5	19
40	Generalized Gray Codes for Local Rank Modulation. IEEE Transactions on Information Theory, 2013, 59, 6664-6673.	1.5	10
41	Trajectory Codes for Flash Memory. IEEE Transactions on Information Theory, 2013, 59, 4530-4541.	1.5	10
42	Routing for security in networks with adversarial nodes. , 2013, , .		8
43	Sequence reconstruction for Grassmann graphs and permutations. , 2013, , .		21
44	Local graph coloring and index coding. , 2013, , .		72
45	Improved upper bounds on the capacity of binary channels with causal adversaries. , 2012, , .		14
46	f-Sensitivity Distance Oracles and Routing Schemes. Algorithmica, 2012, 63, 861-882.	1.0	35
47	On the Hardness of Approximating the Network Coding Capacity. IEEE Transactions on Information Theory, 2011, 57, 1008-1014.	1.5	52
48	Constant-Weight Gray Codes for Local Rank Modulation. IEEE Transactions on Information Theory, 2011, 57, 7431-7442.	1.5	26
49	Beating the Gilbert-Varshamov bound for online channels. , 2011, , .		14
50	Generalized Gray codes for local rank modulation. , 2011, , .		4
51	Data movement and aggregation in flash memories. , 2010, , .		2
52	Coding against delayed adversaries. , 2010, , .		18
53	Approximating Maximum Subgraphs without Short Cycles. SIAM Journal on Discrete Mathematics, 2010, 24, 255-269.	0.4	8
54	One-shot capacity of discrete channels. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
55	Data movement in flash memories. , 2009, , .		4
56	On the multiple unicast network coding, conjecture. , 2009, , .		32
57	Communicating the sum of sources in a 3-sources/3-terminals network. , 2009, , .		20
58	Contraction and Expansion of Convex Sets. Discrete and Computational Geometry, 2009, 42, 594-614.	0.4	4
59	Universal rewriting in constrained memories. , 2009, , .		28
60	Analysis of Incomplete Data and An Intrinsic-Dimension Helly Theorem. Discrete and Computational Geometry, 2008, 40, 537-560.	0.4	5
61	Oblivious Communication Channels and Their Capacity. IEEE Transactions on Information Theory, 2008, 54, 424-429.	1.5	32
62	Optimal Universal Schedules for Discrete Broadcast. IEEE Transactions on Information Theory, 2008, 54, 4365-4372.	1.5	2
63	On the hardness of approximating the network coding capacity. , 2008, , .		43
64	Adversarial models and resilient schemes for network coding. , 2008, , .		33
65	The RPR2 rounding technique for semidefinite programs. Journal of Algorithms, 2006, 60, 1-23.	0.9	40
66	Graphs with Tiny Vector Chromatic Numbers and Huge Chromatic Numbers. SIAM Journal on Computing, 2004, 33, 1338-1368.	0.8	26
67	Improved approximation of Max-Cut on graphs of bounded degree. Journal of Algorithms, 2002, 43, 201-219.	0.9	30
68	Approximation Algorithms for Maximization Problems Arising in Graph Partitioning. Journal of Algorithms, 2001, 41, 174-211.	0.9	112
69	A note on approximating Max-Bisection on regular graphs. Information Processing Letters, 2001, 79, 181-188.	0.4	18