

Michelle Effros

List of Publications by Year in descending order

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69
papers

694
citations

1040056

9
h-index

1125743

13
g-index

69
all docs

69
docs citations

69
times ranked

344
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantization as Histogram Segmentation: Optimal Scalar Quantizer Design in Network Systems. IEEE Transactions on Information Theory, 2008, 54, 344-366.	2.4	49
2	On the impact of a single edge on the network coding capacity. , 2011, , .		41
3	Generalizing Capacity: New Definitions and Capacity Theorems for Composite Channels. IEEE Transactions on Information Theory, 2010, 56, 3069-3087.	2.4	36
4	Low Complexity Encoding for Network Codes. , 2006, , .		34
5	A strong converse for a collection of network source coding problems. , 2009, , .		33
6	On equivalence between network topologies. , 2010, , .		33
7	On the delay of network coding over line networks. , 2009, , .		27
8	The Price of Selfishness in Network Coding. IEEE Transactions on Information Theory, 2012, 58, 2349-2361.	2.4	26
9	Capacity Definitions of General Channels with Receiver Side Information. , 2007, , .		23
10	Network Error Correction With Unequal Link Capacities. IEEE Transactions on Information Theory, 2011, 57, 1144-1164.	2.4	19
11	On Source Coding with Coded Side Information for a Binary Source with Binary Side Information. , 2007, , .		18
12	Network error correction with unequal link capacities. , 2009, , .		17
13	A Theory of Network Equivalence " Part II: Multiterminal Channels. IEEE Transactions on Information Theory, 2014, 60, 3709-3732.	2.4	17
14	Optimal reverse carpooling over wireless networks - a distributed optimization approach. , 2010, , .		16
15	Multiple-Access Network Information-Flow and Correction Codes. IEEE Transactions on Information Theory, 2011, 57, 1067-1079.	2.4	16
16	New results on network error correction: Capacities and upper bounds. , 2010, , .		15
17	On achievable rates for multicast in the presence of side information. , 2008, , .		14
18	The price of selfishness in network coding. , 2009, , .		14

#	ARTICLE	IF	CITATIONS
19	Random Access Channel Coding in the Finite Blocklength Regime. , 2018, , .		14
20	Random Access Channel Coding in the Finite Blocklength Regime. IEEE Transactions on Information Theory, 2021, 67, 2115-2140.	2.4	14
21	A game theoretic approach to network coding. , 2009, , .		13
22	On Lossless Coding With Coded Side Information. IEEE Transactions on Information Theory, 2009, 55, 3284-3296.	2.4	12
23	On the separation of lossy source-network coding and channel coding in wireline networks. , 2010, , .		12
24	A Practical Scheme for Wireless Network Operation. IEEE Transactions on Communications, 2007, 55, 463-476.	7.8	11
25	On the power of cooperation: Can a little help a lot?. , 2014, , .		11
26	On Network Coding of Independent and Dependent Sources in Line Networks. , 2007, , .		9
27	On networks with side information. , 2009, , .		9
28	On capacity outer bounds for a simple family of wireless networks. , 2010, , .		9
29	A strong converse in source coding for super-source networks. , 2011, , .		9
30	The Unbounded Benefit of Encoder Cooperation for the k-User MAC. IEEE Transactions on Information Theory, 2018, 64, 3655-3678.	2.4	9
31	Gaussian Multiple and Random Access Channels: Finite-Blocklength Analysis. IEEE Transactions on Information Theory, 2021, 67, 6983-7009.	2.4	9
32	A continuity theory for lossless source coding over networks. , 2008, , .		8
33	Outer bounds and a functional study of the edge removal problem. , 2013, , .		7
34	On the Capacity Advantage of a Single Bit. , 2016, , .		7
35	Lossless Source Coding in the Point-to-Point, Multiple Access, and Random Access Scenarios. IEEE Transactions on Information Theory, 2020, 66, 6688-6722.	2.4	7
36	On Separation for Multiple Access Channels. , 2006, , .		6

#	ARTICLE	IF	CITATIONS
37	Can negligible cooperation increase network reliability?. , 2016, , .		6
38	On Approximating the Rate Region for Source Coding with Coded Side Information. , 2007, , .		5
39	Lossless Source Coding in the Point-to-Point, Multiple Access, and Random Access Scenarios. , 2019, , .		5
40	Finite-Blocklength and Error-Exponent Analyses for LDPC Codes in Point-to-Point and Multiple Access Communication. , 2020, , .		5
41	Beyond network equivalence. , 2009, , .		4
42	Capacity bounds for networks of broadcast channels. , 2010, , .		4
43	On network coding capacity under on-off scheduling. , 2012, , .		4
44	Can Negligible Rate Increase Network Reliability?. IEEE Transactions on Information Theory, 2018, 64, 4282-4293.	2.4	4
45	Distortion Metrics of Composite Channels with Receiver Side Information. , 2007, , .		3
46	Generalized Capacity and Source-Channel Coding for Packet Erasure Channels. , 2008, , .		3
47	Separation of source-network coding and channel coding in wireline networks. , 2011, , .		3
48	Universal Privacy Guarantees for Smart Meters. , 2019, , .		3
49	Variable-length Feedback Codes with Several Decoding Times for the Gaussian Channel. , 2021, , .		3
50	On the Concavity of Rate Regions for Lossless Source Coding in Networks. , 2006, , .		2
51	Network Source Coding: Pipe Dream or Promise?. , 2007, , .		2
52	Network coding with periodic recomputation for minimum energy multicasting in mobile ad-hoc networks. , 2008, , .		2
53	On robust network coding subgraph construction under uncertainty. , 2008, , .		2
54	On zero-error source coding with feedback. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
55	On feedback in network source coding. , 2009, , .		1
56	Linearly representable entropy vectors and their relation to network coding solutions. , 2009, , .		1
57	On distortion bounds for dependent sources over wireless networks. , 2011, , .		1
58	On capacity bounds for networks containing two-way channels. , 2011, , .		1
59	Peer-to-peer anonymous networking using coding. , 2012, , .		1
60	Is there a canonical network for network information theory?. , 2014, , .		1
61	Every Bit Counts: Second-Order Analysis of Cooperation in the Multiple-Access Channel. , 2021, , .		1
62	Nested Sparse Feedback Codes for Point-to-Point, Multiple Access, and Random Access Channels. , 2021, , .		1
63	Distributed design of network codes for wireless multiple unicasts. , 2008, , .		0
64	Capacity region of multi-resolution streaming in peer-to-peer networks. , 2013, , .		0
65	Separation of Source-Network Coding and Channel Coding in Wireline Networks. IEEE Transactions on Information Theory, 2015, 61, 1524-1538.	2.4	0
66	Nested LDPC Codes for Random Access Communication. , 2021, , .		0
67	The Birthday Problem and Zero-Error List Codes. IEEE Transactions on Information Theory, 2021, 67, 5791-5803.	2.4	0
68	Negligible Cooperation: Contrasting the Maximal- and Average-Error Cases. IEEE Transactions on Information Theory, 2021, 67, 5885-5902.	2.4	0
69	Efficient pooling against strategic adversary with applications in anonymous and reliable networking. , 2014, , .		0