

Thomas A Courtade

List of Publications by Year in descending order

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55
papers

1,081
citations

623734

14
h-index

526287

27
g-index

56
all docs

56
docs citations

56
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiterminal Source Coding Under Logarithmic Loss. IEEE Transactions on Information Theory, 2014, 60, 740-761.	2.4	114
2	Enhanced Precision Through Multiple Reads for LDPC Decoding in Flash Memories. IEEE Journal on Selected Areas in Communications, 2014, 32, 880-891.	14.0	89
3	HINGE: long-read assembly achieves optimal repeat resolution. Genome Research, 2017, 27, 747-756.	5.5	88
4	Linear Regression With Shuffled Data: Statistical and Computational Limits of Permutation Recovery. IEEE Transactions on Information Theory, 2018, 64, 3286-3300.	2.4	56
5	Soft Information for LDPC Decoding in Flash: Mutual-Information Optimized Quantization. , 2011, , .		53
6	Coded Cooperative Data Exchange in Multihop Networks. IEEE Transactions on Information Theory, 2014, 60, 1136-1158.	2.4	53
7	Optimal Allocation of Redundancy Between Packet-Level Erasure Coding and Physical-Layer Channel Coding in Fading Channels. IEEE Transactions on Communications, 2011, 59, 2101-2109.	7.8	39
8	Justification of Logarithmic Loss via the Benefit of Side Information. IEEE Transactions on Information Theory, 2015, 61, 5357-5365.	2.4	37
9	Denoising linear models with permuted data. , 2017, , .		36
10	Optimal exchange of packets for universal recovery in broadcast networks. , 2010, , .		34
11	Existence of Stein kernels under a spectral gap, and discrepancy bounds. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2019, 55, .	1.1	32
12	A Strong Entropy Power Inequality. IEEE Transactions on Information Theory, 2018, 64, 2173-2192.	2.4	31
13	Multiterminal source coding with an entropy-based distortion measure. , 2011, , .		29
14	Which Boolean Functions Maximize Mutual Information on Noisy Inputs?. IEEE Transactions on Information Theory, 2014, 60, 4515-4525.	2.4	28
15	Coded Cooperative Data Exchange for a Secret Key. IEEE Transactions on Information Theory, 2016, 62, 3785-3795.	2.4	26
16	Information Measures: The Curious Case of the Binary Alphabet. IEEE Transactions on Information Theory, 2014, 60, 7616-7626.	2.4	25
17	Linear regression with an unknown permutation: Statistical and computational limits. , 2016, , .		23
18	Information-optimal genome assembly via sparse read-overlap graphs. Bioinformatics, 2016, 32, i494-i502.	4.1	23

#	ARTICLE	IF	CITATIONS
19	Energy-Efficient Group Key Agreement for Wireless Networks. IEEE Transactions on Wireless Communications, 2015, 14, 5552-5564.	9.2	19
20	Strengthening the entropy power inequality. , 2016, , .		19
21	Information masking and amplification: The source coding setting. , 2012, , .		18
22	Multiterminal source coding under logarithmic loss. , 2012, , .		14
23	Outer bounds for multiterminal source coding via a strong data processing inequality. , 2013, , .		14
24	Brascamp-Lieb inequality and its reverse: An information theoretic view. , 2016, , .		14
25	Quantitative Stability of the Entropy Power Inequality. IEEE Transactions on Information Theory, 2018, 64, 5691-5703.	2.4	14
26	Optimal compressed representation of high throughput sequence data via light assembly. Nature Communications, 2018, 9, 566.	12.8	14
27	An extremal inequality for long Markov chains. , 2014, , .		13
28	A Forward-Reverse Brascamp-Lieb Inequality: Entropic Duality and Gaussian Optimality. Entropy, 2018, 20, 418.	2.2	12
29	Compression for Quadratic Similarity Queries. IEEE Transactions on Information Theory, 2015, 61, 2729-2747.	2.4	11
30	Fundamental Limits of Genome Assembly Under an Adversarial Erasure Model. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, 2, 199-208.	2.1	10
31	The Effect of Local Decodability Constraints on Variable-Length Compression. IEEE Transactions on Information Theory, 2018, 64, 2593-2608.	2.4	10
32	Approximate capacity of Gaussian relay networks: Is a sublinear gap to the cutset bound plausible?. , 2015, , .		9
33	Monotonicity of entropy and Fisher information: a quick proof via maximal correlation. Communications in Information and Systems, 2016, 16, 111-115.	0.5	9
34	Smoothing Brascamp-Lieb inequalities and strong converses for common randomness generation. , 2016, , .		8
35	Justification of logarithmic loss via the benefit of side information. , 2014, , .		6
36	Novel probabilistic models of spatial genetic ancestry with applications to stratification correction in genome-wide association studies. Bioinformatics, 2017, 33, 879-885.	4.1	6

#	ARTICLE	IF	CITATIONS
37	Bounds on the Poincaré constant for convolution measures. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2020, 56, .	1.1	6
38	Compressing sparse sequences under local decodability constraints. , 2015, , .		5
39	Stability of the Bakry-Émery theorem on \mathbb{R}^n . <i>Journal of Functional Analysis</i> , 2020, 279, 108523.	1.4	5
40	Optimal Encoding for Discrete Degraded Broadcast Channels. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 1360-1378.	2.4	4
41	Smoothing Brascamp-Lieb Inequalities and Strong Converse of Coding Theorems. <i>IEEE Transactions on Information Theory</i> , 2020, 66, 704-721.	2.4	4
42	Euclidean Forward-Reverse Brascamp-Lieb Inequalities: Finiteness, Structure, and Extremals. <i>Journal of Geometric Analysis</i> , 2021, 31, 3300-3350.	1.0	4
43	Quadratic Similarity Queries on Compressed Data. , 2013, , .		2
44	Wasserstein stability of the entropy power inequality for log-concave random vectors. , 2017, , .		2
45	Concavity of entropy power: Equivalent formulations and generalizations. , 2017, , .		2
46	A Quantitative Entropic CLT for Radially Symmetric Random Vectors. , 2018, , .		2
47	A Family of Bayesian Cramér-Rao Bounds, and Consequences for Log-Concave Priors. , 2019, , .		2
48	Sharp Maximum-Entropy Comparisons. , 2021, , .		2
49	A deterministic approach to rate-compatible fountain communication. , 2010, , .		1
50	Minimizing weighted sum finish time for one-to-many file transfer in peer-to-peer networks. , 2011, , .		1
51	Principles and Applications of Science of Information [Scanning the Issue]. <i>Proceedings of the IEEE</i> , 2017, 105, 183-188.	21.3	1
52	Counterexample to the Vector Generalization of Costa's Entropy Power Inequality, and Partial Resolution. <i>IEEE Transactions on Information Theory</i> , 2018, 64, 5453-5454.	2.4	1
53	Superposition coding to support multiple streams, priorities, and channel capacities in the context of GMSK. , 2011, , .		0
54	Compression for exact match identification. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	Comments on "Canalizing Boolean Functions Maximize Mutual Information" IEEE Transactions on Information Theory, 2015, 61, 1149-1151.	2.4	0