Ioannis Kontoyiannis

List of Publications by Year
in descending order

41 papers	622 citations	840776 11 h-index	752698 20 g-index
42 all docs	42 docs citations	42 times ranked	371 citing authors

#	Article	IF	Citations
1	Optimal Lossless Data Compression: Non-Asymptotics and Asymptotics. IEEE Transactions on Information Theory, 2014, 60, 777-795.	2.4	90
2	Estimating the Entropy of Binary Time Series: Methodology, Some Theory and a Simulation Study. Entropy, 2008, 10, 71-99.	2.2	81
3	Asymptotic Recurrence and Waiting Times for Stationary Processes. Journal of Theoretical Probability, 1998, 11, 795-811.	0.8	59
4	Sumset and Inverse Sumset Inequalities for Differential Entropy and Mutual Information. IEEE Transactions on Information Theory, 2014, 60, 4503-4514.	2.4	40
5	Log-concavity, ultra-log-concavity, and a maximum entropy property of discrete compound Poisson measures. Discrete Applied Mathematics, 2013, 161, 1232-1250.	0.9	30
6	Estimating the Directed Information and Testing for Causality. IEEE Transactions on Information Theory, 2016, 62, 6053-6067.	2.4	30
7	Thinning, Entropy, and the Law of Thin Numbers. IEEE Transactions on Information Theory, 2010, 56, 4228-4244.	2.4	29
8	Compound Poisson Approximation via Information Functionals. Electronic Journal of Probability, 2010, 15, .	1.0	29
9	Control Variates for Estimation Based on Reversible Markov Chain Monte Carlo Samplers. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 133-161.	2.2	28
10	Thinning and the Law of Small Numbers. , 2007, , .		20
11	Entropy Bounds on Abelian Groups and the Ruzsa Divergence. IEEE Transactions on Information Theory, 2018, 64, 77-92.	2.4	20
12	Fisher Information, Compound Poisson Approximation, and the Poisson Channel. , 2007, , .		18
13	The entropies of the sum and the difference of two IID random variables are not too different. , 2010, , .		15
14	Identifying Statistical Dependence in Genomic Sequences via Mutual Information Estimates. Eurasip Journal on Bioinformatics and Systems Biology, 2007, 2007, 1-11.	1.4	13
15	From the Entropy to the Statistical Structure of Spike Trains. , 2006, , .		12
16	Sparse superposition codes for Gaussian vector quantization. , 2010, , .		12
17	Bayesian Context Trees: Modelling and Exact Inference for Discrete Time Series. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2022, 84, 1287-1323.	2.2	12
18	Estimation of the Rate–Distortion Function. IEEE Transactions on Information Theory, 2008, 54, 3757-3762.	2.4	9

#	Article	IF	Citations
19	Lossless data compression rate: Asymptotics and non-asymptotics. , 2012, , .		9
20	Efficient random codebooks and databases for lossy compression in near-linear time. , 2009, , .		8
21	Optimal lossless compression: Source varentropy and dispersion. , 2013, , .		8
22	Lossless compression with moderate error probability. , 2013, , .		8
23	Evaluating the effects of second-dose vaccine-delay policies in European countries: A simulation study based on data from Greece. PLoS ONE, 2022, 17, e0263977.	2.5	5
24	Deep Tree Models for â€˜Bigâ€™ Biological Data. , 2018, , .		4
25	The LÃ©vy State Space Model. , 2019, , .		4
26	Packet Speed and Cost in Mobile Wireless Delay-Tolerant Networks. IEEE Transactions on Information Theory, 2020, 66, 5683-5702.	2.4	4
27	Differential Temporal Difference Learning. IEEE Transactions on Automatic Control, 2021, 66, 4652-4667.	5.7	4
28	Nonasymptotic Gaussian Approximation for Inference With Stable Noise. IEEE Transactions on Information Theory, 2020, 66, 4966-4991.	2.4	4
29	Steady state analysis of balanced-allocation routing. Random Structures and Algorithms, 2005, 26, 446-467.	1.1	3
30	Fundamental Limits of Lossless Data Compression With Side Information. IEEE Transactions on Information Theory, 2021, 67, 2680-2692.	2.4	3
31	A criterion for the compound poisson distribution to be maximum entropy. , 2009, , .		2
32	Simulated convergence rates with application to an intractable Î±-stable inference problem. , 2017, , .		2
33	Asymptotics of the Packet Speed and Cost in a Mobile Wireless Network Model. , 2018, , .		2
34	Geometric ergodicity in a weighted Sobolev space. Annals of Probability, 2020, 48, .	1.8	2
35	Counting the primes using entropy. , 2008, , .		1
36	Sharp Gaussian Approximation Bounds for Linear Systems with <tex>$alpha$</tex> -stable Noise. , 2018, , .		1

#	Article	IF	Citations
37	Analysis of a One-Dimensional Continuous Delay-Tolerant Network Model. , 2018, , .		1
38	On Estimating the Rate-Distortion Function. , 2006, , .		0
39	A simple network of nodes moving on the circle. Random Structures and Algorithms, 2020, 57, 317-338.	1.1	0
40	Sharp Second-Order Pointwise Asymptotics for Lossless Compression with Side Information. Entropy, 2020, 22, 705.	2.2	0
41	Joy Thomas: legacy, foundation and the IT society. IEEE BITS the Information Theory Magazine, 2021, , 1-1.	1.6	0