Terence H Chan

List of Publications by Year
in descending order

100	1,242	759233	526287
papers	citations	12	27
		h-index	g-index

100	100	100	652
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Capacity-Achieving Probability Measure for Conditionally Gaussian Channels With Bounded Inputs. IEEE Transactions on Information Theory, 2005, 51, 2073-2088.	2.4	152
2	Private information retrieval for coded storage. , 2015, , .		128
3	On a relation between information inequalities and group theory. IEEE Transactions on Information Theory, 2002, 48, 1992-1995.	2.4	83
4	Alternative Decoding Methods for Optical Communications Based on Nonlinear Fourier Transform. Journal of Lightwave Technology, 2017, 35, 1542-1550.	4.6	80
5	Dualities Between Entropy Functions and Network Codes. IEEE Transactions on Information Theory, 2008, 54, 4470-4487.	2.4	64
6	Theory of Secure Network Coding. Proceedings of the IEEE, 2011, 99, 421-437.	21.3	64
7	Rate Distortion With Side-Information at Many Decoders. IEEE Transactions on Information Theory, 2011, 57, 5240-5257.	2.4	37
8	Irregular Fractional Repetition Code Optimization for Heterogeneous Cloud Storage. IEEE Journal on Selected Areas in Communications, 2014, 32, 1048-1060.	14.0	35
9	A combinatorial approach to information inequalities. Communications in Information and Systems, 2001, 1, 241-254.	0.5	29
10	Capacity bounds for secure network coding. , 2008, , .		28
11	Balanced information inequalities. IEEE Transactions on Information Theory, 2003, 49, 3261-3267.	2.4	27
12	Network coding capacity: A functional dependence bound. , 2009, , .		27
13	On capacity regions of non-multicast networks. , 2010, , .		27
14	Recent Progresses in Characterising Information Inequalities. Entropy, 2011, 13, 379-401.	2.2	26
15	Network Coding Capacity Regions via Entropy Functions. IEEE Transactions on Information Theory, 2014, 60, 5347-5374.	2.4	24
16	Group characterizable entropy functions. , 2007, , .		21
17	Mission impossible: Computing the network coding capacity region. , 2008, , .		20
18	Capacity regions for linear and abelian network codes. , 2007, , .		17

#	ARTICLE	IF	CITATIONS
19	Error-free perfect-secrecy systems. , 2011, , .		16
20	A Gaussian noise model of spectral amplitudes in soliton communication systems. , 2015, , .		16
21	A code design framework for multi-rack distributed storage. , 2014, , .		15
22	A spectral domain noise model for optical fibre channels. , 2015, , .		14
23	Correlated Eigenvalues of Multi-Soliton Optical Communications. Scientific Reports, 2019, 9, 6399.	3.3	14
24	Truncation Technique for Characterizing Linear Polymatroids. IEEE Transactions on Information Theory, 2011, 57, 6364-6378.	2.4	12
25	Cut-Set Bounds on Network Information Flow. IEEE Transactions on Information Theory, 2016, 62, 1850-1865.	2.4	12
26	On Complexity Reduction of the LP Bound Computation and Related Problems. , 2011, , .		11
27	Game theoretic framework for studying WBAN coexistence: 2-Player game analysis and n-player game estimation. , 2016, , .		11
28	Non-linear Information Inequalities. Entropy, 2008, 10, 765-775.	2.2	10
29	The Minimal Set of Ingleton Inequalities. IEEE Transactions on Information Theory, 2011, 57, 1849-1864.	2.4	10
30	Broadcast repair for wireless distributed storage systems. , 2015, , .		10
31	Optimal Coding and Allocation for Perfect Secrecy in Multiple Clouds. IEEE Transactions on Information Forensics and Security, 2016, 11, 388-399.	6.9	10
32	Entropy Vectors and Network Codes. , 2007, , .		9
33	Dualities between Entropy Functions and Network Codes. , 2008, , .		9
34	Design of error-free perfect secrecy system by prefix codes and partition codes. , 2012, , .		9
35	Quasi-Uniform Codes and Their Applications. IEEE Transactions on Information Theory, 2013, 59, 7915-7926.	2.4	9
36	Spatially periodic signals for fiber channels. , 2014, , .		9

#	Article	IF	Citations
37	Achievable rates of soliton communication systems. , 2016, , .		9
38	Properties of quasi-uniform codes. , 2010, , .		7
39	Check splitting of root-check LDPC codes over ARQ block-fading channels. , 2010, , .		7
40	A minimal set of shannon-type inequalities for functional dependence structures. , 2017, , .		7
41	The minimal set of Ingleton inequalities. , 2008, , .		6
42	Bounds for network information flow with correlated sources. , 2011, , .		6
43	Capacity Bounds for Networks With Correlated Sources and Characterisation of Distributions by Entropies. IEEE Transactions on Information Theory, 2017, 63, 3540-3553.	2.4	6
44	Multi-Rack Distributed Data Storage Networks. IEEE Transactions on Information Theory, 2019, 65, 6072-6088.	2.4	6
45	Repair topology design for distributed storage systems. , 2012, , .		5
46	Replicating Coded Content in Crowdsourcing-Based CDN Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3492-3503.	8.3	5
47	Cooperative Caching for Ultra-Dense Fog-RANs: Information Optimality and Hypergraph Coloring. IEEE Transactions on Communications, 2021, 69, 3652-3663.	7.8	5
48	A Noiseless Key-Homomorphic PRF: Application on Distributed Storage Systems. Lecture Notes in Computer Science, 2016, , 505-513.	1.3	5
49	The arbitrarily varying channel when the jammer knows the channel input. , 2010, , .		4
50	Non-entropic inequalities from information constraints. , 2012, , .		4
51	Characterising correlation via entropy functions. , 2013, , .		4
52	Linear programming bounds for storage codes. , 2013, , .		4
53	A new design framework for LT codes over noisy channels. , 2014, , .		4
54	Minimal Characterization of Shannon-Type Inequalities Under Functional Dependence and Full Conditional Independence Structures. IEEE Transactions on Information Theory, 2019, 65, 4041-4051.	2.4	4

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55	DOA estimation of wideband LFM RADAR signals. , 2019, , .		4
56	The confidence interval of entropy estimation through a noisy channel. , 2010, , .		3
57	2-Dimensional interval algorithm. , 2011, , .		3
58	Linear programming bounds for robust locally repairable storage codes. , 2014, , .		3
59	Locally repairable codes over a network. , 2014, , .		3
60	Capacity of Wireless Distributed Storage Systems With Broadcast Repair. IEEE Transactions on Communications, 2019, 67, 1004-1017.	7.8	3
61	A Cheating-Detectable (*k*, *L*, *n*) Ramp Secret Sharing Scheme. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2709-2719.	0.3	3
62	Basic Entropy Sets. , 2008, , .		2
63	Decoding network codes by message passing. , 2009, , .		2
64	Existence of new inequalities for representable polymatroids. , 2010, , .		2
65	Rate distortion with Side-Information at many receivers. , 2010, , .		2
66	Entropy functions and determinant inequalities. , 2012, , .		2
67	Symmetry in distributed storage systems. , 2013, , .		2
68	Three-level storage and nested MDS codes for perfect secrecy in multiple clouds. , 2014, , .		2
69	Storage and Computation: A Tradeoff in Secure Distributed Computing. , 2020, , .		2
70	Large system design and analysis of protocols for decode-forward relay networks. , 2008, , .		1
71	Design of an error-free perfect secrecy system for unknown inputs. , 2012, , .		1
72	Coding for multiple packets in erasure networks. , 2012, , .		1

#	Article	IF	Citations
73	A graphical revisit of the Krawtchouk transform. , 2012, , .		1
74	Robust multiple description coding — Joint Coding for source and storage. , 2013, , .		1
75	Updatable encryption in distributed storage systems using key-homomorphic pseudorandom functions. International Journal of Information and Coding Theory, 2016, 3, 365.	0.3	1
76	Unveiling Latent Behaviors of Video Viewers with Cross-Platform Information. , 2017, , .		1
77	Quasi-Spatially Periodic Signals for Optical Fibre Communications. Scientific Reports, 2018, 8, 15596.	3.3	1
78	Noise Correlation between Eigenvalues in Nonlinear Frequency Division Multiplexing. , 2016, , .		1
79	Signal Processing Techniques for Nonlinear Fourier Transform Systems. , 2019, , .		1
80	Nonlinear Fourier transform of second order solitons with closely packed eigenvalues. , 2019, , .		1
81	Robust key agreement schemes. , 2009, , .		0
82	Finite session codes in asynchronous channel. , 2011, , .		0
83	Trade-offs in energy consumption and throughput for a simple two-relay network. , 2011, , .		0
84	Error Reduction in Multiple-Access Systems by Message Wrapping. IEEE Communications Letters, 2012, 16, 616-618.	4.1	0
85	Compact representation of polymatroid axioms for random variables with conditional independencies. , 2012, , .		0
86	Multiple-packet coding in block fading channels. , 2012, , .		0
87	Translation schemes and LP bounds. , 2013, , .		0
88	The Kraft inequality for EPS systems. , 2013, , .		0
89	Bounds for constrained entropy maximisation. , 2014, , .		0
90	Algorithm to improve the outage performance of IF Virtual MIMO system. , 2014, , .		0

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91	Real-time communication of dependent messages. , 2014, , .		0
92	Communication of dependent messages over degraded compound channels. , 2015, , .		0
93	Authentication for two-way relay channel with Physical-Layer Network coding. , 2015, , .		0
94	Using Gaussian pulses in physical-layer network coding with symbol misalignment. , 2016, , .		0
95	A correlation propagation model for nonlinear fourier transform of second order solitons. Scientific Reports, 2021, 11, 2434.	3.3	0
96	Characterisation of conditional independence structures for polymatroids using vanishing sets. Kybernetika, 0, , 1022-1044.	0.0	0
97	Fibre Loss and Noise Characterisation in Nonlinear Spectral Domain. , 2016, , .		0
98	New approach to find nonlinear Fourier transform of optical signals. , 2019, , .		0
99	Eigenvalue analysis of time separated signals using layer-peeling property. , 2019, , .		0
100	Modeling perturbation of scattering coefficients by using dominating noise subspace. , 2020, , .		0