

# Terence H Chan

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

1,242  
citations

759233

12  
h-index

526287

27  
g-index

100  
all docs

100  
docs citations

100  
times ranked

652  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A correlation propagation model for nonlinear fourier transform of second order solitons. Scientific Reports, 2021, 11, 2434.   | 3.3 | 0         |
| 2  | Cooperative Caching for Ultra-Dense Fog-RANs: Information Optimality and Hypergraph Coloring. IEEE Transactions on Communications, 2021, 69, 3652-3663.                                       | 7.8 | 5         |
| 3  | Storage and Computation: A Tradeoff in Secure Distributed Computing. , 2020, , .  |     | 2         |
| 4  | Modeling perturbation of scattering coefficients by using dominating noise subspace. , 2020, , .  |     | 0         |
| 5  | Multi-Rack Distributed Data Storage Networks. IEEE Transactions on Information Theory, 2019, 65, 6072-6088.   | 2.4 | 6         |
| 6  | Correlated Eigenvalues of Multi-Soliton Optical Communications. Scientific Reports, 2019, 9, 6399.  | 3.3 | 14        |
| 7  | 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         |
| 8  | DOA estimation of wideband LFM RADAR signals. , 2019, , .   |     | 4         |
| 9  | Capacity of Wireless Distributed Storage Systems With Broadcast Repair. IEEE Transactions on Communications, 2019, 67, 1004-1017.   | 7.8 | 3         |
| 10 | Signal Processing Techniques for Nonlinear Fourier Transform Systems. , 2019, , .   |     | 1         |
| 11 | New approach to find nonlinear Fourier transform of optical signals. , 2019, , .  |     | 0         |
| 12 | Eigenvalue analysis of time separated signals using layer-peeling property. , 2019, , .   |     | 0         |
| 13 | Nonlinear Fourier transform of second order solitons with closely packed eigenvalues. , 2019, , .   |     | 1         |
| 14 | Replicating Coded Content in Crowdsourcing-Based CDN Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3492-3503.  | 8.3 | 5         |
| 15 | Quasi-Spatially Periodic Signals for Optical Fibre Communications. Scientific Reports, 2018, 8, 15596.  | 3.3 | 1         |
| 16 | Alternative Decoding Methods for Optical Communications Based on Nonlinear Fourier Transform. Journal of Lightwave Technology, 2017, 35, 1542-1550.   | 4.6 | 80        |
| 17 | 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         |
| 18 | A minimal set of shannon-type inequalities for functional dependence structures. , 2017, , .  |     | 7         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Unveiling Latent Behaviors of Video Viewers with Cross-Platform Information. , 2017, , .   |     | 1         |
| 20 | A Cheating-Detectable (<i>k</i>, <i>L</i>, <i>n</i>) Ramp Secret Sharing Scheme. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2709-2719. | 0.3 | 3         |
| 21 | Updatable encryption in distributed storage systems using key-homomorphic pseudorandom functions. International Journal of Information and Coding Theory, 2016, 3, 365.                            | 0.3 | 1         |
| 22 | Game theoretic framework for studying WBAN coexistence: 2-Player game analysis and n-player game estimation. , 2016, , .   |     | 11        |
| 23 | Achievable rates of soliton communication systems. , 2016, , .   |     | 9         |
| 24 | Using Gaussian pulses in physical-layer network coding with symbol misalignment. , 2016, , .   |     | 0         |
| 25 | Optimal Coding and Allocation for Perfect Secrecy in Multiple Clouds. IEEE Transactions on Information Forensics and Security, 2016, 11, 388-399.  | 6.9 | 10        |
| 26 | Cut-Set Bounds on Network Information Flow. IEEE Transactions on Information Theory, 2016, 62, 1850-1865.  | 2.4 | 12        |
| 27 | A Noiseless Key-Homomorphic PRF: Application on Distributed Storage Systems. Lecture Notes in Computer Science, 2016, , 505-513.   | 1.3 | 5         |
| 28 | Fibre Loss and Noise Characterisation in Nonlinear Spectral Domain. , 2016, , .  |     | 0         |
| 29 | Noise Correlation between Eigenvalues in Nonlinear Frequency Division Multiplexing. , 2016, , .  |     | 1         |
| 30 | Private information retrieval for coded storage. , 2015, , .   |     | 128       |
| 31 | Broadcast repair for wireless distributed storage systems. , 2015, , .   |     | 10        |
| 32 | A spectral domain noise model for optical fibre channels. , 2015, , .  |     | 14        |
| 33 | Communication of dependent messages over degraded compound channels. , 2015, , .   |     | 0         |
| 34 | Authentication for two-way relay channel with Physical-Layer Network coding. , 2015, , .   |     | 0         |
| 35 | A Gaussian noise model of spectral amplitudes in soliton communication systems. , 2015, , .  |     | 16        |
| 36 | A code design framework for multi-rack distributed storage. , 2014, , .  |     | 15        |

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|----|---|------|-----------|
| 37 | Linear programming bounds for robust locally repairable storage codes. , 2014, , .  |      | 3         |
| 38 | Locally repairable codes over a network. , 2014, , .  |      | 3         |
| 39 | A new design framework for LT codes over noisy channels. , 2014, , .  |      | 4         |
| 40 | Three-level storage and nested MDS codes for perfect secrecy in multiple clouds. , 2014, , .  |      | 2         |
| 41 | Spatially periodic signals for fiber channels. , 2014, , .  |      | 9         |
| 42 | Irregular Fractional Repetition Code Optimization for Heterogeneous Cloud Storage. IEEE Journal on Selected Areas in Communications, 2014, 32, 1048-1060. | 14.0 | 35        |
| 43 | Bounds for constrained entropy maximisation. , 2014, , .  |      | 0         |
| 44 | Algorithm to improve the outage performance of IF Virtual MIMO system. , 2014, , .  |      | 0         |
| 45 | Network Coding Capacity Regions via Entropy Functions. IEEE Transactions on Information Theory, 2014, 60, 5347-5374.                                      | 2.4  | 24        |
| 46 | Real-time communication of dependent messages. , 2014, , .  |      | 0         |
| 47 | Translation schemes and LP bounds. , 2013, , .  |      | 0         |
| 48 | Characterising correlation via entropy functions. , 2013, , .   |      | 4         |
| 49 | Quasi-Uniform Codes and Their Applications. IEEE Transactions on Information Theory, 2013, 59, 7915-7926.   | 2.4  | 9         |
| 50 | Robust multiple description coding &#x2014; Joint Coding for source and storage. , 2013, , .  |      | 1         |
| 51 | Symmetry in distributed storage systems. , 2013, , .  |      | 2         |
| 52 | Linear programming bounds for storage codes. , 2013, , .  |      | 4         |
| 53 | The Kraft inequality for EPS systems. , 2013, , .   |      | 0         |
| 54 | Non-entropic inequalities from information constraints. , 2012, , .   |      | 4         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Design of an error-free perfect secrecy system for unknown inputs. , 2012, , .   |      | 1         |
| 56 | Repair topology design for distributed storage systems. , 2012, , .  |      | 5         |
| 57 | Design of error-free perfect secrecy system by prefix codes and partition codes. , 2012, , .                               |      | 9         |
| 58 | Entropy functions and determinant inequalities. , 2012, , .  |      | 2         |
| 59 | Coding for multiple packets in erasure networks. , 2012, , .   |      | 1         |
| 60 | Error Reduction in Multiple-Access Systems by Message Wrapping. IEEE Communications Letters, 2012, 16, 616-618.            | 4.1  | 0         |
| 61 | Compact representation of polymatroid axioms for random variables with conditional independencies. , 2012, , .             |      | 0         |
| 62 | A graphical revisit of the Krawtchouk transform. , 2012, , .   |      | 1         |
| 63 | Multiple-packet coding in block fading channels. , 2012, , .   |      | 0         |
| 64 | On Complexity Reduction of the LP Bound Computation and Related Problems. , 2011, , .                                      |      | 11        |
| 65 | Finite session codes in asynchronous channel. , 2011, , .  |      | 0         |
| 66 | 2-Dimensional interval algorithm. , 2011, , .  |      | 3         |
| 67 | Trade-offs in energy consumption and throughput for a simple two-relay network. , 2011, , .                                |      | 0         |
| 68 | Bounds for network information flow with correlated sources. , 2011, , .   |      | 6         |
| 69 | Theory of Secure Network Coding. Proceedings of the IEEE, 2011, 99, 421-437.   | 21.3 | 64        |
| 70 | The Minimal Set of Ingleton Inequalities. IEEE Transactions on Information Theory, 2011, 57, 1849-1864.                    | 2.4  | 10        |
| 71 | Rate Distortion With Side-Information at Many Decoders. IEEE Transactions on Information Theory, 2011, 57, 5240-5257.      | 2.4  | 37        |
| 72 | Truncation Technique for Characterizing Linear Polymatroids. IEEE Transactions on Information Theory, 2011, 57, 6364-6378. | 2.4  | 12        |

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|----|--|-----|-----------|
| 73 | Error-free perfect-secrecy systems. , 2011, , .  |     | 16        |
| 74 | Recent Progresses in Characterising Information Inequalities. Entropy, 2011, 13, 379-401.                            | 2.2 | 26        |
| 75 | On capacity regions of non-multicast networks. , 2010, , .   |     | 27        |
| 76 | Existence of new inequalities for representable polymatroids. , 2010, , .  |     | 2         |
| 77 | The arbitrarily varying channel when the jammer knows the channel input. , 2010, , .                                 |     | 4         |
| 78 | Rate distortion with Side-Information at many receivers. , 2010, , .   |     | 2         |
| 79 | Properties of quasi-uniform codes. , 2010, , .   |     | 7         |
| 80 | Check splitting of root-check LDPC codes over ARQ block-fading channels. , 2010, , .                                 |     | 7         |
| 81 | The confidence interval of entropy estimation through a noisy channel. , 2010, , .                                   |     | 3         |
| 82 | Robust key agreement schemes. , 2009, , .  |     | 0         |
| 83 | Decoding network codes by message passing. , 2009, , .   |     | 2         |
| 84 | Network coding capacity: A functional dependence bound. , 2009, , .  |     | 27        |
| 85 | Dualities Between Entropy Functions and Network Codes. IEEE Transactions on Information Theory, 2008, 54, 4470-4487. | 2.4 | 64        |
| 86 | Capacity bounds for secure network coding. , 2008, , .   |     | 28        |
| 87 | Basic Entropy Sets. , 2008, , .  |     | 2         |
| 88 | Dualities between Entropy Functions and Network Codes. , 2008, , .   |     | 9         |
| 89 | Mission impossible: Computing the network coding capacity region. , 2008, , .  |     | 20        |
| 90 | Non-linear Information Inequalities. Entropy, 2008, 10, 765-775.   | 2.2 | 10        |

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|-----|---|-----|-----------|
| 91  | The minimal set of Ingleton inequalities. , 2008, , .   |     | 6         |
| 92  | Large system design and analysis of protocols for decode-forward relay networks. , 2008, , .  |     | 1         |
| 93  | Group characterizable entropy functions. , 2007, , .  |     | 21        |
| 94  | Capacity regions for linear and abelian network codes. , 2007, , .  |     | 17        |
| 95  | Entropy Vectors and Network Codes. , 2007, , .  |     | 9         |
| 96  | Capacity-Achieving Probability Measure for Conditionally Gaussian Channels With Bounded Inputs. IEEE Transactions on Information Theory, 2005, 51, 2073-2088. | 2.4 | 152       |
| 97  | Balanced information inequalities. IEEE Transactions on Information Theory, 2003, 49, 3261-3267.  | 2.4 | 27        |
| 98  | On a relation between information inequalities and group theory. IEEE Transactions on Information Theory, 2002, 48, 1992-1995.                                | 2.4 | 83        |
| 99  | A combinatorial approach to information inequalities. Communications in Information and Systems, 2001, 1, 241-254.  | 0.5 | 29        |
| 100 | Characterisation of conditional independence structures for polymatroids using vanishing sets. Kybernetika, 0, , 1022-1044.                                   | 0.0 | 0         |