Lawrence Ong

List of Publications by Year
in descending order

83 papers	772 citations	759233 12 h-index	713466 21 g-index
83 all docs	83 docs citations	83 times ranked	417 citing authors

#	Article	IF	Citations
1	When Differential Privacy Implies Syntactic Privacy. IEEE Transactions on Information Forensics and Security, 2022, 17, 2110-2124.	6.9	1
2	A Code and Rate Equivalence Between Secure Network and Index Coding. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 106-120.	2.5	5
3	Information Leakage in Index Coding. , 2021, , .		2
4	On Converse Results for Secure Index Coding. , 2021, , .		1
5	Secure Network and Index Coding Equivalence: The Last Piece of the Puzzle. , 2020, , .		0
6	Structural Characteristics of Two-Sender Index Coding. Entropy, 2019, 21, 615.	2.2	5
7	Multi-Sender Index Coding for Collaborative Broadcasting: A Rank-Minimization Approach. IEEE Transactions on Communications, 2019, 67, 1452-1466.	7.8	14
8	Optimal-Rate Characterisation for Pliable Index Coding using Absent Receivers. , 2019, , .		6
9	Can Marton Coding Alone Ensure Individual Secrecy?. , 2019, , .		1
10	Centralized Caching with Shared Caches in Heterogeneous Cellular Networks. , 2019, , .		7
11	Cooperative Multi-Sender Index Coding. IEEE Transactions on Information Theory, 2019, 65, 1725-1739.	2.4	14
12	Centralized Caching with Unequal Cache Sizes. , 2018, , .		5
13	Secure Network-Index Code Equivalence: Extension to Non-zero Error and Leakage. , 2018, , .		7
14	Corrections to â€œInterlinked Cycles for Index Coding: Generalizing Cycles and Cliquesâ€•[Jun 17 3692-3711]. IEEE Transactions on Information Theory, 2018, 64, 6460-6460.	2.4	3
15	Raptor Codes for Higher-Order Modulation Using a Multi-Edge Framework. IEEE Wireless Communications Letters, 2018, 7, 110-113.	5.0	5
16	The Secure Two-Receiver Broadcast Channel With One-Sided Receiver Side Information. , 2018, , .		1
17	Joint optimisation technique for multiâ€edge type lowâ€density parityâ€check codes. IET Communications, 2017, 11, 61-68.	2.2	6
18	The DoF Region of the Three-Receiver Gaussian MIMO Broadcast Channel With Receiver Message Side Information. IEEE Transactions on Communications, 2017, 65, 2000-2010.	7.8	1

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19	Interlinked Cycles for Index Coding: Generalizing Cycles and Cliques. IEEE Transactions on Information Theory, 2017, 63, 3692-3711.	2.4	28
20	Analysis and Design of Raptor Codes Using a Multi-Edge Framework. IEEE Transactions on Communications, 2017, 65, 5123-5136.	7.8	10
21	On the problem of non-zero word error rates for fixed-rate error correction codes in continuous variable quantum key distribution. New Journal of Physics, 2017, 19, 023003.	2.9	6
22	An improved caching scheme for nonuniform demands and its optimal allocation. , 2017, , .		4
23	Improved bounds for multi-sender index coding. , 2017, , .		10
24	Joint Optimization of User Association, Data Delivery Rate and Precoding for Cache-Enabled F-RANs. , 2017, , .		7
25	Optimal Finite-Length and Asymptotic Index Codes for Five or Fewer Receivers. IEEE Transactions on Information Theory, 2017, 63, 7116-7130.	2.4	8
26	Leveraging Receiver Message Side Information in Two-Receiver Broadcast Channels: A General Approach â€. Entropy, 2017, 19, 138.	2.2	0
27	Secure index coding: Existence and construction. , 2016, , .		14
28	The Single-Uniprior Index-Coding Problem: The Single-Sender Case and the Multi-Sender Extension. IEEE Transactions on Information Theory, 2016, 62, 3165-3182.	2.4	53
29	A New Density Evolution Approximation for LDPC and Multi-Edge Type LDPC Codes. IEEE Transactions on Communications, 2016, , 1-1.	7.8	17
30	NOMA's offline power allocation and corresponding algorisms: A design and its evaluation. , 2016, , .		0
31	A unified inner bound for the two-receiver memoryless broadcast channel with channel state and message side information. , 2016, , .		1
32	An Equivalence between Secure Network and Index Coding. , 2016, , .		6
33	Graph-Theoretic Approaches to Two-Sender Index Coding. , 2016, , .		13
34	A new index coding scheme exploiting interlinked cycles. , 2015, , .		3
35	Generalized interlinked cycle cover for index coding. , 2015, , .		8
36	Capacity results for the multi-way relay channel with common messages. , 2015, , .		0

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37	A unified scheme for two-receiver broadcast channels with receiver message side information. , 2015, , .		4
38	A Multiway Relay Channel With Balanced Sources. IEEE Transactions on Communications, 2015, 63, 4809-4823.	7.8	0
39	The half-duplex Gaussian two-way relay channel with direct links. , 2015, , .		1
40	Optimal Coding Schemes for the Three-Receiver AWGN Broadcast Channel With Receiver Message Side Information. IEEE Transactions on Information Theory, 2015, 61, 5490-5503.	2.4	13
41	Optimization of graph based codes for belief propagation decoding. , 2014, , .		3
42	The capacity of three-receiver AWGN broadcast channels with receiver message side information. , 2014, , .		13
43	Optimal coding functions for pairwise message sharing on finite-field multi-way relay channels. , 2014, , .		1
44	A new class of index coding instances where linear coding is optimal. , 2014, , .		6
45	Linear Codes are Optimal for Index-Coding Instances with Five or Fewer Receivers. , 2014, , .		13
46	On the capacity of the binaryâ€symmetric parallelâ€relay network. Transactions on Emerging Telecommunications Technologies, 2014, 25, 217-230.	3.9	7
47	On Index Coding in Noisy Broadcast Channels with Receiver Message Side Information. IEEE Communications Letters, 2014, 18, 640-643.	4.1	7
48	Coding schemes for a class of receiver message side information in AWGN broadcast channels. , 2014, , .		2
49	Multi-Way Relay Networks: Orthogonal Uplink, Source-Channel Separation and Code Design. IEEE Transactions on Communications, 2013, 61, 753-768.	7.8	9
50	The multi-sender multicast index coding. , 2013, , .		4
51	The Three-User Finite-Field Multi-Way Relay Channel with Correlated Sources. IEEE Transactions on Communications, 2013, 61, 3125-3135.	7.8	7
52	The finite field multi-way relay channel with correlated sources: Beyond three users. , 2012, , .		1
53	The Half-Duplex AWGN Single-Relay Channel: Full Decoding or Partial Decoding?. IEEE Transactions on Communications, 2012, 60, 3156-3160.	7.8	5
54	Optimal index codes for a class of multicast networks with receiver side information. , 2012, , .		58

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55	The capacity region of restricted multi-way relay channels with deterministic uplinks. , 2012, , .		1
56	Capacity results for two classes of three-way channels. , 2012, , .		8
57	On Capacity and Optimal Scheduling for the Half-Duplex Multiple-Relay Channel. IEEE Transactions on Information Theory, 2012, 58, 5770-5784.	2.4	17
58	On the Equal-Rate Capacity of the AWGN Multiway Relay Channel. IEEE Transactions on Information Theory, 2012, 58, 5761-5769.	2.4	33
59	The Capacity Region of the Restricted Two-Way Relay Channel with Any Deterministic Uplink. IEEE Communications Letters, 2012, 16, 396-399.	4.1	7
60	On achievable rate regions of the asymmetric AWGN two-way relay channel. , 2011, , .		3
61	The Two-Way Relay Network with Arbitrarily Correlated Sources and an Orthogonal MAC. , 2011, , .		5
62	Sparse Graph Codes for the Two-Way Relay Network with Correlated Sources. , 2011, , .		1
63	The Capacity Region of Multiway Relay Channels Over Finite Fields With Full Data Exchange. IEEE Transactions on Information Theory, 2011, 57, 3016-3031.	2.4	62
64	Joint channel–network coding strategies for networks with low–complexity relays. European Transactions on Telecommunications, 2011, 22, 396-406.	1.2	6
65	The finite field multi-way relay channel with correlated sources: The three-user case. , 2011, , .		2
66	Optimal Routing for Decode-Forward in Cooperative Wireless Networks. IEEE Transactions on Communications, 2010, 58, 2345-2355.	7.8	12
67	The capacity of a class of multi-way relay channels. , 2010, , .		1
68	Functional-decode-forward for the general discrete memoryless two-way relay channel. , 2010, , .		3
69	Capacity Theorems for the AWGN multi-way relay channel. , 2010, , .		38
70	An optimal coding strategy for the binary multi-way relay channel. IEEE Communications Letters, 2010, 14, 330-332.	4.1	57
71	The binary-symmetric parallel-relay network. , 2010, , .		1
72	Achievable rate regions of the butterfly network with noisy links and end-to-end error correction. , 2009, , .		1

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73	Optimal schedules for the D-node half duplex phase fading MRC. , 2009, , .		1
74	Myopic Coding in Multiterminal Networks. IEEE Transactions on Information Theory, 2008, 54, 3295-3314.	2.4	10
75	Achievable rates and optimal schedules for half duplex multiple-relay networks. , 2008, , .		10
76	Achievable rates and schedules for half duplex phase fading multiple-relay networks. , 2008, , .		3
77	Optimal Routing for the Gaussian Multiple-Relay Channel with Decode-and-Forward. , 2007, , .		2
78	Optimal Routing for Decode-and-Forward based Cooperation in Wireless Networks. , 2007, , .		17
79	On the capacity of the single source multiple relay single destination mesh network. Ad Hoc Networks, 2007, 5, 786-800.	5.5	15
80	Coding Strategies for Multiple-Access Channels With Feedback and Correlated Sources. IEEE Transactions on Information Theory, 2007, 53, 3476-3497.	2.4	15
81	The Multiple Access Channel with Feedback and Correlated Sources. , 2006, , .		3
82	The Capacity of the Single Source Multiple Relay Single Destination Mesh Network. , 2006, , .		8
83	Myopic coding in multiple relay channels. , 2005, , .		4