

Hua Sun

List of Publications by Year in descending order

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303
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#	ARTICLE	IF	CITATIONS
1	Distributed Linearly Separable Computation. IEEE Transactions on Information Theory, 2022, 68, 1259-1278.	1.5	7
2	On Secure Distributed Linearly Separable Computation. IEEE Journal on Selected Areas in Communications, 2022, 40, 912-926.	9.7	5
3	Cache-Aided Matrix Multiplication Retrieval. IEEE Transactions on Information Theory, 2022, 68, 4301-4319.	1.5	5
4	Secure Groupcast With Shared Keys. IEEE Transactions on Information Theory, 2022, 68, 4681-4699.	1.5	2
5	Conditional Disclosure of Secrets: A Noise and Signal Alignment Approach. IEEE Transactions on Communications, 2022, 70, 4052-4062.	4.9	7
6	On the Fundamental Limits of Device-to-Device Private Caching Under Uncoded Cache Placement and User Collusion. IEEE Transactions on Information Theory, 2022, 68, 5701-5729.	1.5	2
7	Compound Secure Groupcast: Key Assignment for Selected Broadcasting. IEEE Journal on Selected Areas in Information Theory, 2022, , 1-1.	1.9	1
8	Two-Level Private Information Retrieval. IEEE Journal on Selected Areas in Information Theory, 2022, , 1-1.	1.9	0
9	On the Tradeoff Between Computation and Communication Costs for Distributed Linearly Separable Computation. IEEE Transactions on Communications, 2021, 69, 7390-7405.	4.9	7
10	On the Optimal Load-Memory Tradeoff of Cache-Aided Scalar Linear Function Retrieval. IEEE Transactions on Information Theory, 2021, 67, 4001-4018.	1.5	13
11	Compound Secure Groupcast: Key Assignment for Selected Broadcasting. , 2021, , .		2
12	Information Theoretic Secure Aggregation with User Dropouts. , 2021, , .		11
13	A New Design of Cache-aided Multiuser Private Information Retrieval with Uncoded Prefetching. , 2021, , .		2
14	On the Linear Capacity of Conditional Disclosure of Secrets. , 2021, , .		5
15	Two-Level Private Information Retrieval. , 2021, , .		4
16	Secure Distributed Linearly Separable Computation. , 2021, , .		1
17	On the Fundamental Limits of Cache-Aided Multiuser Private Information Retrieval. IEEE Transactions on Communications, 2021, 69, 5828-5842.	4.9	7
18	Multilevel Topological Interference Management: A TIM-TIN Perspective. IEEE Transactions on Communications, 2021, 69, 7350-7362.	4.9	8

#	ARTICLE	IF	CITATIONS
19	Cache-Aided General Linear Function Retrieval. Entropy, 2021, 23, 25.	1.1	3
20	Expand-and-Randomize: An Algebraic Approach to Secure Computation. Entropy, 2021, 23, 1461.	1.1	8
21	Opportunistic Treating Interference as Noise. IEEE Transactions on Information Theory, 2020, 66, 520-533.	1.5	13
22	Opportunistic Topological Interference Management. IEEE Transactions on Communications, 2020, 68, 521-535.	4.9	15
23	Conditional Disclosure of Secrets: A Noise and Signal Alignment Approach. , 2020, , .		6
24	Cache-Aided Scalar Linear Function Retrieval. , 2020, , .		2
25	The Minimum Upload Cost of Symmetric Private Information Retrieval. , 2020, , .		7
26	Private Information Delivery. IEEE Transactions on Information Theory, 2020, 66, 7672-7683.	1.5	1
27	Novel Converse for Device-to-Device Demand-Private Caching with a Trusted Server. , 2020, , .		4
28	On the Capacity of Locally Decodable Codes. IEEE Transactions on Information Theory, 2020, 66, 6566-6579.	1.5	3
29	Cache-aided Multiuser Private Information Retrieval. , 2020, , .		5
30	On the Capacity of Computation Broadcast. IEEE Transactions on Information Theory, 2020, 66, 3417-3434.	1.5	4
31	Capacity-Achieving Private Information Retrieval Codes From MDS-Coded Databases With Minimum Message Size. IEEE Transactions on Information Theory, 2020, 66, 4904-4916.	1.5	36
32	The Capacity of Symmetric Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 322-329.	1.5	112
33	Capacity-Achieving Private Information Retrieval Codes With Optimal Message Size and Upload Cost. IEEE Transactions on Information Theory, 2019, 65, 7613-7627.	1.5	84
34	On the Randomness Cost of Linear Secure Computation : (Invited Presentation). , 2019, , .		3
35	Breaking the MDS-PIR Capacity Barrier via Joint Storage Coding. Information (Switzerland), 2019, 10, 265.	1.7	15
36	Opportunistic Topological Interference Management. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Cross Subspace Alignment and the Asymptotic Capacity of \mathbb{X}^n -Secure \mathbb{T}^n -Private Information Retrieval. IEEE Transactions on Information Theory, 2019, 65, 5783-5798.	1.5	57
38	Capacity-Achieving Private Information Retrieval Codes with Optimal Message Size and Upload Cost. , 2019, , .		4
39	Private Information Delivery. , 2019, , .		2
40	Capacity-Achieving Private Information Retrieval Codes from MDS-Coded Databases with Minimum Message Size. , 2019, , .		14
41	Symmetric Private Information Retrieval with Mismatched Coded Messages and Randomness. , 2019, , .		17
42	The Capacity of Anonymous Communications. IEEE Transactions on Information Theory, 2019, 65, 3871-3879.	1.5	4
43	The Capacity of Private Information Retrieval With Eavesdroppers. IEEE Transactions on Information Theory, 2019, 65, 3198-3214.	1.5	36
44	The Capacity of Private Computation. IEEE Transactions on Information Theory, 2019, 65, 3880-3897.	1.5	58
45	Private Information Retrieval from MDS Coded Data With Colluding Servers: Settling a Conjecture by Freij-Hollanti <i>et al</i> . IEEE Transactions on Information Theory, 2018, 64, 1000-1022.	1.5	88
46	The Capacity of Robust Private Information Retrieval With Colluding Databases. IEEE Transactions on Information Theory, 2018, 64, 2361-2370.	1.5	192
47	TDMA is Optimal for All-Unicast DoF Region of TIM if and only if Topology is Chordal Bipartite. IEEE Transactions on Information Theory, 2018, 64, 2065-2076.	1.5	19
48	Multiround Private Information Retrieval: Capacity and Storage Overhead. IEEE Transactions on Information Theory, 2018, 64, 5743-5754.	1.5	59
49	The ϵ -error Capacity of Symmetric PIR with Byzantine Adversaries. , 2018, , .		6
50	The Capacity of Private Information Retrieval with Eavesdroppers. , 2018, , .		6
51	The Capacity of Private Computation. , 2018, , .		4
52	The Capacity of Anonymous Communications. , 2018, , .		2
53	A Shannon-Theoretic Approach to the Storage-Retrieval Tradeoff in PIR Systems. , 2018, , .		25
54	The Capacity of Private Information Retrieval. IEEE Transactions on Information Theory, 2017, 63, 4075-4088.	1.5	304

#	ARTICLE	IF	CITATIONS
55	Optimal Download Cost of Private Information Retrieval for Arbitrary Message Length. IEEE Transactions on Information Forensics and Security, 2017, 12, 2920-2932.	4.5	78
56	Replication-Based Outer Bounds: On the Optimality of "Half the Cake" for Rank-Deficient MIMO Interference Networks. IEEE Transactions on Information Theory, 2017, 63, 6607-6621.	1.5	3
57	The Capacity of Private Information Retrieval with Disjoint Colluding Sets. , 2017, , .		14
58	The Capacity of Symmetric Private Information Retrieval. , 2016, , .		44
59	Blind interference alignment for private information retrieval. , 2016, , .		29
60	Genie Chains: Exploring Outer Bounds on the Degrees of Freedom of MIMO Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 5573-5602.	1.5	7
61	On the Optimality of Treating Interference as Noise for K -User Parallel Gaussian Interference Networks. IEEE Transactions on Information Theory, 2016, 62, 1911-1930.	1.5	21
62	On the separability of GDoF region for parallel Gaussian TIN optimal interference networks. , 2015, , .		6
63	On the Optimality of Treating Interference as Noise: General Message Sets. IEEE Transactions on Information Theory, 2015, 61, 3722-3736.	1.5	29
64	Index Coding Capacity: How Far Can One Go With Only Shannon Inequalities?. IEEE Transactions on Information Theory, 2015, 61, 3041-3055.	1.5	24
65	Topological interference management with multiple antennas. , 2014, , .		24
66	Multilevel topological interference management. , 2013, , .		18
67	Topological interference management with alternating connectivity. , 2013, , .		43