

Soheil Mohajer

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

508
citations

1039880

9
h-index

996849

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g-index

40
all docs

40
docs citations

40
times ranked

363
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimality of Energy-Efficient Scheduling and Relaying for Half-Duplex Relay Networks. IEEE Journal on Selected Areas in Information Theory, 2022, 3, 37-53.	1.9	0
2	Parallel Unary Computing Based on Function Derivatives. ACM Transactions on Reconfigurable Technology and Systems, 2021, 14, 1-25.	1.9	4
3	On the Sum Capacity of Dual-Class Parallel Packet-Erasure Broadcast Channels. IEEE Transactions on Communications, 2021, 69, 2271-2289.	4.9	0
4	Gaussian Half-Duplex Diamond Networks: Ratio of Capacity the Best Relay Can Achieve. IEEE Transactions on Wireless Communications, 2021, 20, 5273-5287.	6.1	0
5	On the Fundamental Limits of Coded Data Shuffling for Distributed Machine Learning. IEEE Transactions on Information Theory, 2020, 66, 3098-3131.	1.5	10
6	MISO Cache-Aided Communication with Reduced Subpacketization. , 2020, , .		12
7	Resource Provisioning for Virtual Network Function Deployment with In-Subnetwork Processing. , 2020, , .		6
8	Joint Resource Allocation and Routing for Service Function Chaining with In-Subnetwork Processing. , 2020, , .		14
9	Deterministic Shuffling Networks to Implement Stochastic Circuits in Parallel. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1821-1832.	2.1	4
10	Cooperative Wireless Mobile Caching: A Signal Processing Perspective. IEEE Signal Processing Magazine, 2020, 37, 18-38.	4.6	4
11	Cascade Codes for Distributed Storage Systems. IEEE Transactions on Information Theory, 2020, 66, 7490-7527.	1.5	19
12	Determinant Codes With Helper-Independent Repair for Single and Multiple Failures. IEEE Transactions on Information Theory, 2019, 65, 5469-5483.	1.5	9
13	On Simple Scheduling in Half-Duplex Relay Diamond Networks. , 2019, , .		5
14	Bandwidth Adaptive & Error Resilient MBR Exact Repair Regenerating Codes. IEEE Transactions on Information Theory, 2019, 65, 2736-2759.	1.5	6
15	Cache-Aided Two-User Broadcast Channels with State Information at Receivers. , 2019, , .		0
16	Subspace Coding for Coded Caching: Decentralized and Centralized Placements Meet for Three Users. , 2019, , .		1
17	Product Matrix MSR Codes With Bandwidth Adaptive Exact Repair. IEEE Transactions on Information Theory, 2018, 64, 3121-3135.	1.5	14
18	Characterization of Heterogeneous Perfusion in Contrast-Enhanced Ultrasound. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Low latency parallel implementation of traditionally-called stochastic circuits using deterministic shuffling networks. , 2018, , .		6
20	Erasur Coding for Decentralized Coded Caching. , 2018, , .		8
21	Cache-Aided Communications With Multiple Antennas at Finite SNR. IEEE Journal on Selected Areas in Communications, 2018, 36, 1682-1691.	9.7	17
22	Coding across heterogeneous parallel erasure broadcast channels is useful. , 2017, , .		1
23	Role of a relay in bursty networks with correlated transmissions. , 2016, , .		2
24	New exact-repair codes for distributed storage systems using matrix determinant. , 2016, , .		4
25	Determinant Coding: A Novel Framework for Exact-Repair Regenerating Codes. IEEE Transactions on Information Theory, 2016, 62, 6683-6697.	1.5	20
26	Linear exact repair rate region of $(k + 1, k, k)$ distributed storage systems: A new approach. , 2015, , .		19
27	Exact repair for distributed storage systems: Partial characterization via new bounds. , 2015, , .		6
28	New bounds for distributed storage systems with secure repair. , 2014, , .		10
29	Tight Bounds on the Redundancy of Huffman Codes \mathcal{H} . IEEE Transactions on Information Theory, 2012, 58, 6737-6746.	1.5	10
30	Graph-Constrained Group Testing. IEEE Transactions on Information Theory, 2012, 58, 248-262.	1.5	80
31	Asymmetric Multilevel Diversity Coding and Asymmetric Gaussian Multiple Descriptions. IEEE Transactions on Information Theory, 2010, 56, 4367-4387.	1.5	25
32	Graph-constrained group testing. , 2010, , .		15
33	Approximating the Gaussian Multiple Description Rate Region Under Symmetric Distortion Constraints. IEEE Transactions on Information Theory, 2009, 55, 3869-3891.	1.5	41
34	Approximate capacity of a class of Gaussian relay-interference networks. , 2009, , .		24
35	On the capacity of multisource non-coherent network coding. , 2009, , .		10
36	Support recovery in compressed sensing: An estimation theoretic approach. , 2009, , .		9

#	ARTICLE	IF	CITATIONS
37	A deterministic approach to wireless network error correction. , 2009, , .		0
38	Transmission techniques for relay-interference networks. , 2008, , .		81
39	Asymmetric Multi-level Diversity Coding. Proceedings of the Data Compression Conference, 2008, , .	0.0	4
40	Tight bounds on the AUH codes. , 2008, , .		5