

Camilla Hollanti

List of Publications by Year in descending order

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71
papers

790
citations

932766

10
h-index

676716

22
g-index

71
all docs

71
docs citations

71
times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Private Information Retrieval from Coded Databases with Colluding Servers. SIAM Journal on Applied Algebra and Geometry, 2017, 1, 647-664.	0.9	140
2	Private information retrieval schemes for coded data with arbitrary collusion patterns. , 2017, , .		74
3	Device-to-device data storage for mobile cellular systems. , 2013, , .		51
4	Private Information Retrieval From Coded Storage Systems With Colluding, Byzantine, and Unresponsive Servers. IEEE Transactions on Information Theory, 2019, 65, 3898-3906.	1.5	50
5	Fast-Decodable Asymmetric Space-Time Codes From Division Algebras. IEEE Transactions on Information Theory, 2012, 58, 2362-2385.	1.5	40
6	Capacity and Security of Heterogeneous Distributed Storage Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 2701-2709.	9.7	37
7	Constructions and Properties of Linear Locally Repairable Codes. IEEE Transactions on Information Theory, 2016, 62, 1129-1143.	1.5	31
8	On the Combinatorics of Locally Repairable Codes via Matroid Theory. IEEE Transactions on Information Theory, 2016, 62, 5296-5315.	1.5	30
9	CONDENSE: A Reconfigurable Knowledge Acquisition Architecture for Future 5G IoT. IEEE Access, 2016, 4, 3360-3378.	2.6	28
10	St-private information retrieval schemes using transitive codes. IEEE Transactions on Information Theory, 2019, 65, 2107-2118.	1.5	28
11	Optimal Matrix Lattices for MIMO Codes from Division Algebras. , 2006, , .		14
12	Capacity and security of heterogeneous distributed storage systems. , 2013, , .		12
13	On the Capacity of Private Information Retrieval from Coded, Colluding, and Adversarial Servers. , 2019, , .		12
14	Private Information Retrieval Over Random Linear Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 790-799.	4.5	11
15	Asymmetric Space-Time Block Codes for MIMO Systems. , 2007, , .		10
16	Constructions of optimal and almost optimal locally repairable codes. , 2014, , .		10
17	Device-to-Device Data Storage with Regenerating Codes. Lecture Notes in Computer Science, 2015, , 57-69.	1.0	10
18	Private and Secure Distributed Matrix Multiplication Schemes for Replicated or MDS-Coded Servers. IEEE Transactions on Information Forensics and Security, 2022, 17, 659-669.	4.5	10

#	ARTICLE	IF	CITATIONS
19	Well-rounded lattices for reliability and security in Rayleigh fading SISO channels. , 2016, , .		9
20	Almost affine locally repairable codes and matroid theory. , 2014, , .		8
21	Nonuniform Fuchsian codes for noisy channels. Journal of the Franklin Institute, 2014, 351, 5076-5098.	1.9	8
22	Alphabet-Dependent Bounds for Linear Locally Repairable Codes Based on Residual Codes. IEEE Transactions on Information Theory, 2019, 65, 6089-6100.	1.5	8
23	Towards Practical Private Information Retrieval From MDS Array Codes. IEEE Transactions on Communications, 2020, 68, 3415-3425.	4.9	8
24	Toward the Capacity of Private Information Retrieval From Coded and Colluding Servers. IEEE Transactions on Information Theory, 2022, 68, 517-537.	1.5	8
25	Coded Caching Clusters with Device-to-Device Communications. IEEE Transactions on Mobile Computing, 2019, 18, 264-275.	3.9	7
26	Quantum Private Information Retrieval From Coded and Colluding Servers. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 599-610.	1.9	7
27	Probability estimates for fading and wiretap channels from ideal class zeta functions. Advances in Mathematics of Communications, 2015, 9, 391-413.	0.4	7
28	Reducing complexity with less than minimum delay space-time lattice codes. , 2011, , .		6
29	Distributed storage for proximity based services. , 2012, , .		6
30	Well-rounded lattices for coset coding in MIMO wiretap channels. , 2016, , .		6
31	Locally Diverse Constellations From the Special Orthogonal Group. IEEE Transactions on Wireless Communications, 2016, 15, 4426-4437.	6.1	6
32	Private Information Retrieval Schemes With Product-Matrix MBR Codes. IEEE Transactions on Information Forensics and Security, 2021, 16, 441-450.	4.5	6
33	Matroid Theory and Storage Codes: Bounds and Constructions. Signals and Communication Technology, 2018, , 385-425.	0.4	6
34	A Generic Transformation for Optimal Node Repair in MDS Array Codes Over F_{2^k} . IEEE Transactions on Communications, 2022, 70, 727-738.	4.9	6
35	On the eavesdropper's correct decision in Gaussian and fading wiretap channels using lattice codes. , 2011, , .		5
36	Space-time storage codes for wireless distributed storage systems. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
37	Private Streaming With Convolutional Codes. IEEE Transactions on Information Theory, 2020, 66, 2417-2429.	1.5	5
38	Diversity-multiplexing tradeoff-optimal code constructions for symmetric MIMO multiple access channels. , 2009, , .		4
39	The Complete Hierarchical Locality of the Punctured Simplex Code. , 2019, , .		4
40	Low-Rank Parity-Check Codes over the Ring of Integers Modulo a Prime Power. , 2020, , .		4
41	On the Capacity of Quantum Private Information Retrieval From MDS-Coded and Colluding Servers. IEEE Journal on Selected Areas in Communications, 2022, 40, 885-898.	9.7	4
42	Algebraic hybrid satellite-terrestrial space-time codes for digital broadcasting in SFN. , 2011, , .		3
43	Rotating non-uniform and high-dimensional constellations using geodesic flow on lie groups. , 2014, , .		3
44	A comparison of skewed and orthogonal lattices in Gaussian wiretap channels. , 2015, , .		3
45	A connection between locally repairable codes and exact regenerating codes. , 2016, , .		3
46	Computational Code-Based Single-Server Private Information Retrieval. , 2020, , .		3
47	Cyclic flats of binary matroids. Advances in Applied Mathematics, 2021, 127, 102165.	0.4	3
48	Well-Rounded Lattices: Towards Optimal Coset Codes for Gaussian and Fading Wiretap Channels. IEEE Transactions on Information Theory, 2021, 67, 3645-3663.	1.5	3
49	Performance evaluation of 4×2 MIMO schemes for mobile broadcasting. , 2011, , .		2
50	Algebraic fast-decodable relay codes for distributed communications. , 2012, , .		2
51	Strong secrecy in wireless network coding systems with M-QAM modulators. , 2014, , .		2
52	A low-complexity message recovery method for Compute-and-Forward relaying. , 2015, , .		2
53	Information bounds and flatness factor approximation for fading wiretap MIMO channels. , 2016, , .		2
54	Fast-Decodable Space-Time Codes for the -Relay and Multiple-Access MIMO Channel. IEEE Transactions on Wireless Communications, 2016, 15, 1754-1767.	6.1	2

#	ARTICLE	IF	CITATIONS
55	Private Streaming with Convolutional Codes. , 2018, , .		2
56	Analysis of Some Well-Rounded Lattices in Wiretap Channels. , 2018, , .		2
57	File Size Distributions and Caching for Offloading. , 2019, , .		2
58	Uniform Minors in Maximally Recoverable Codes. IEEE Communications Letters, 2019, 23, 1297-1300.	2.5	2
59	Improved Private and Secure Distributed Matrix Multiplication. , 2021, , .		2
60	Multi-dimensional and non-uniform constellation optimization via the special orthogonal group. , 2014, , .		1
61	Natural orders for asymmetric space-time coding: minimizing the discriminant. Applicable Algebra in Engineering, Communications and Computing, 2018, 29, 371-391.	0.3	1
62	Improved user-private information retrieval via finite geometry. Designs, Codes, and Cryptography, 2019, 87, 665-677.	1.0	1
63	The complete hierarchical locality of the punctured Simplex code. Designs, Codes, and Cryptography, 2021, 89, 105-125.	1.0	1
64	High-Rate Quantum Private Information Retrieval with Weakly Self-Dual Star Product Codes. , 2021, , .		1
65	An Approximation of Theta Functions with Applications to Communications. SIAM Journal on Applied Algebra and Geometry, 2020, 4, 471-501.	0.9	1
66	On MIDO Space-Time Block Codes. , 2007, , .		0
67	On the construction of DMT-Optimal AST codes with transmit antenna selection. , 2008, , .		0
68	Probability bounds for an eavesdropper's correct decision over a MIMO wiretap channel. , 2013, , .		0
69	Secrecy capacity of heterogeneous distributed storage systems. , 2014, , .		0
70	Lattice coding for Rician fading channels from Hadamard rotations. , 2017, , .		0
71	Preface to the special issue on network coding and designs. Designs, Codes, and Cryptography, 2018, 86, 237-238.	1.0	0