

Vitaly Skachek

List of Publications by Year in descending order

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61
papers

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759233

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677142

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61
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61
times ranked

414
citing authors

#	ARTICLE	IF	CITATIONS
1	Error Correction for Index Coding With Side Information. IEEE Transactions on Information Theory, 2013, 59, 1517-1531.	2.4	63
2	Error-Correction in Flash Memories via Codes in the Ulam Metric. IEEE Transactions on Information Theory, 2013, 59, 3003-3020.	2.4	62
3	On the Security of Index Coding With Side Information. IEEE Transactions on Information Theory, 2012, 58, 3975-3988.	2.4	57
4	Linear-Programming Decoding of Nonbinary Linear Codes. IEEE Transactions on Information Theory, 2009, 55, 4134-4154.	2.4	49
5	Recursive Code Construction for Random Networks. IEEE Transactions on Information Theory, 2010, 56, 1378-1382.	2.4	46
6	CONDENSE: A Reconfigurable Knowledge Acquisition Architecture for Future 5G IoT. IEEE Access, 2016, 4, 3360-3378.	4.2	28
7	Optimal Index Codes With Near-Extreme Rates. IEEE Transactions on Information Theory, 2014, 60, 1515-1527.	2.4	24
8	Batch and PIR Codes and Their Connections to Locally Repairable Codes. Signals and Communication Technology, 2018, , 427-442.	0.5	23
9	Efficient encoding algorithm for third-order spectral-null codes. IEEE Transactions on Information Theory, 1998, 44, 846-851.	2.4	17
10	Bounds for batch codes with restricted query size. , 2016, , .		14
11	Linear Batch Codes. CIM Series in Mathematical Sciences, 2015, , 245-253.	0.4	14
12	On the Pseudocodeword Redundancy of Binary Linear Codes. IEEE Transactions on Information Theory, 2012, 58, 4848-4861.	2.4	12
13	Constant Weight Codes: An Approach Based on Knuth's Balancing Method. IEEE Journal on Selected Areas in Communications, 2014, 32, 909-918.	14.0	12
14	New bounds for permutation codes in Ulam metric. , 2015, , .		11
15	Average spectra for ensembles of LDPC codes and applications. , 2017, , .		11
16	Probabilistic algorithm for finding roots of linearized polynomials. Designs, Codes, and Cryptography, 2008, 46, 17-23.	1.6	10
17	Compressing multisets using tries. , 2012, , .		10
18	BP-LED Decoding Algorithm for LDPC Codes Over AWGN Channels. IEEE Transactions on Information Theory, 2019, 65, 1677-1693.	2.4	10

#	ARTICLE	IF	CITATIONS
19	On secure Index Coding with Side Information. , 2011, , .		9
20	Hybrid Noncoherent Network Coding. IEEE Transactions on Information Theory, 2013, 59, 3317-3331.	2.4	9
21	Design and Analysis of NB QC-LDPC Codes Over Small Alphabets. IEEE Transactions on Communications, 2022, 70, 2964-2976.	7.8	9
22	Special issue on network coding. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.7	8
23	New bounds for codes over finite Frobenius rings. Designs, Codes, and Cryptography, 2010, 57, 169-179.	1.6	7
24	Subspace synchronization: A network-coding approach to object reconciliation. , 2014, , .		7
25	Low complexity algorithm approaching the ML decoding of binary LDPC codes. , 2016, , .		7
26	Lower bounds on the minimum pseudodistance for linear codes with q-ary PSK modulation over AWGN. , 2008, , .		6
27	Optimal index codes with near-extreme rates. , 2012, , .		6
28	Minimum Pearson Distance Detection Using Mass-Centered Codewords in the Presence of Unknown Varying Offset. IEEE Journal on Selected Areas in Communications, 2016, 34, 2510-2517.	14.0	6
29	Spatially coupled LDPC coding in cooperative wireless networks. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.7	6
30	Distance Properties of Short LDPC Codes and Their Impact on the BP, ML and Near-ML Decoding Performance. Lecture Notes in Computer Science, 2017, , 48-61.	1.3	6
31	Performance of ML decoding for ensembles of binary and nonbinary regular LDPC codes of finite lengths. , 2017, , .		6
32	Characterization of graph-cover pseudocodewords of codes over F_q . , 2010, , .		5
33	Rank modulation for translocation error correction. , 2012, , .		5
34	Store-then-cooperate: Energy harvesting scheme in cooperative relay networks. , 2016, , .		5
35	Asynchronous Batch and PIR Codes from Hypergraphs. , 2018, , .		5
36	Decoding of Expander Codes at Rates Close to Capacity. IEEE Transactions on Information Theory, 2006, 52, 5475-5485.	2.4	4

#	ARTICLE	IF	CITATIONS
37	Index coding and error correction. , 2011, , .		4
38	Refined upper bounds on stopping redundancy of binary linear codes. , 2015, , .		4
39	Stopping Redundancy Hierarchy Beyond the Minimum Distance. IEEE Transactions on Information Theory, 2019, 65, 3724-3737.	2.4	4
40	Correcting a Fraction of Errors in Nonbinary Expander Codes With Linear Programming. IEEE Transactions on Information Theory, 2011, 57, 3698-3706.	2.4	3
41	Constructions and Bounds for Batch Codes with Small Parameters. Lecture Notes in Computer Science, 2017, , 283-295.	1.3	3
42	Improved Redundant Parity-Check Based BP Decoding of LDPC Codes. , 2018, , .		3
43	Euclidean Distance Spectra of Irregular NB LDPC Coded QAM Signals with Optimized Mappings. , 2021, , .		3
44	Polytope representations for linear-programming decoding of non-binary linear codes. , 2008, , .		2
45	Minimum distance bounds for expander codes. , 2008, , .		2
46	Optimization of Irregular NB QC-LDPC Block Codes over Small Alphabets. , 2021, , .		2
47	A Random Coding Bound on the ML Decoding Error Probability for NB LDPC Coded QAM Signals. , 2021, , .		2
48	On LP decoding of nonbinary expander codes. , 2009, , .		1
49	Random clique codes. , 2012, , .		1
50	Sparse structured associative memories as efficient set-membership data structures. , 2013, , .		1
51	Spatially-coupled LDPC coding in cooperative wireless networks. , 2016, , .		1
52	Wrap-around sliding-window near-ML decoding of binary LDPC codes over the BEC. , 2016, , .		1
53	Minimum pearson distance detection in the presence of unknown slowly varying offset. , 2016, , .		1
54	AVN-based Elimination of Short Cycles in Tanner Graphs of QC LDPC Codes. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
55	LDPC Codes Over the BEC: Bounds and Decoding Algorithms. IEEE Transactions on Communications, 2019, 67, 1754-1769.	7.8	1
56	On the pseudocodeword redundancy. , 2010, , .		0
57	Sparse binary matrices as efficient associative memories. , 2014, , .		0
58	Data dissemination problem in wireless networks. , 2015, , .		0
59	Network function computation as a service in future 5G machine type communications. , 2016, , .		0
60	Two-party function computation on the reconciled data. , 2017, , .		0
61	Batch Codes for Asynchronous Recovery of Data. IEEE Transactions on Information Theory, 2022, 68, 1545-1559.	2.4	0