Tuvi Etzion

List of Publications by Year
in descending order

120 papers	1,868 citations	304602 22 h-index	330025 37 g-index
121 all docs	121 docs citations	121 times ranked	603 citing authors

#	Article	IF	Citations
1	Domination mappings into the hamming ball: Existence, constructions, and algorithms. Advances in Mathematics of Communications, 2023, 17, 1027-1059.	0.4	1
2	Non-Binary Diameter Perfect Constant-Weight Codes. IEEE Transactions on Information Theory, 2022, 68, 891-904.	1.5	1
3	Private Proximity Retrieval Codes. IEEE Transactions on Information Theory, 2021, , 1-1.	1.5	1
4	Block-avoiding point sequencings. Journal of Combinatorial Designs, 2021, 29, 339-366.	0.3	2
5	Explicit Baranyai partitions for quadruples, Part I: Quadrupling constructions. Journal of Combinatorial Designs, 2021, 29, 447-481.	0.3	3
6	Large sets with multiplicity. Designs, Codes, and Cryptography, 2021, 89, 1661-1690.	1.0	1
7	Regular Multiset Combinatorial Batch Codes over Vector Spaces. , 2021, , .		1
8	Locally-Constrained de Bruijn Codes: Properties, Enumeration, Code Constructions, and Applications. IEEE Transactions on Information Theory, 2021, 67, 7857-7875.	1.5	6
9	PIR Schemes With Small Download Complexity and Low Storage Requirements. IEEE Transactions on Information Theory, 2020, 66, 557-571.	1.5	5
10	Efficient Algorithm for the Linear Complexity of Sequences and Some Related Consequences. , 2020, , .		0
11	Recovery Sets for Subspaces from a Vector Space. , 2020, , .		1
12	Bounds on the Length of Functional PIR and Batch Codes. IEEE Transactions on Information Theory, 2020, 66, 4917-4934.	1.5	9
13	Low-Power Cooling Codes With Efficient Encoding and Decoding. IEEE Transactions on Information Theory, 2020, 66, 4804-4818.	1.5	5
14	An improved recursive construction for disjoint Steiner quadruple systems. Journal of Combinatorial Designs, 2020, 28, 551-567.	0.3	3
15	Subspace packings: constructions and bounds. Designs, Codes, and Cryptography, 2020, 88, 1781-1810.	1.0	6
16	Network-Coding Solutions for Minimal Combination Networks and Their Sub-Networks. IEEE Transactions on Information Theory, 2020, 66, 6786-6798.	1.5	6
17	Local Rank Modulation for Flash Memories. IEEE Transactions on Information Theory, 2019, 65, 1705-1713.	1.5	1
18	PIR Array Codes With Optimal Virtual Server Rate. IEEE Transactions on Information Theory, 2019, 65, 6136-6145.	1.5	12

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19	Grassmannian Codes With New Distance Measures for Network Coding. IEEE Transactions on Information Theory, 2019, 65, 4131-4142.	1.5	10
20	Bounds on the Length of Functional PIR and Batch Codes. , 2019, , .		6
21	Constrained de Bruijn Codes and their Applications. , 2019, , .		5
22	Private Proximity Retrieval. , 2019, , .		1
23	On the Access Complexity of PIR Schemes. , 2019, , .		10
24	Network Coding Solutions for the Combination Network and its Subgraphs. , 2019, , .		5
25	Locality and Availability of Array Codes Constructed From Subspaces. IEEE Transactions on Information Theory, 2019, 65, 2648-2660.	1.5	21
26	Vector Network Coding Based on Subspace Codes Outperforms Scalar Linear Network Coding. IEEE Transactions on Information Theory, 2018, 64, 2460-2473.	1.5	29
27	Low-Power Cooling Codes with Efficient Encoding and Decoding. , 2018, , .		1
28	Cooling Codes: Thermal-Management Coding for High-Performance Interconnects. IEEE Transactions on Information Theory, 2018, 64, 3062-3085.	1.5	8
29	Metrics Based on Finite Directed Graphs and Coding Invariants. IEEE Transactions on Information Theory, 2018, 64, 2398-2409.	1.5	9
30	A New Approach for Examining q-Steiner Systems. Electronic Journal of Combinatorics, 2018, 25, .	0.2	3
31	Residual q-Fano Planes and Related Structures. Electronic Journal of Combinatorics, 2018, 25, .	0.2	2
32	Constructions of High-Rate Minimum Storage Regenerating Codes Over Small Fields. IEEE Transactions on Information Theory, 2017, 63, 2015-2038.	1.5	27
33	PIR array codes with optimal PIR rates. , 2017, , .		25
34	Locality and availability of array codes constructed from subspaces. , 2017, , .		5
35	Cooling codes: Thermal-management coding for high-performance interconnects. , 2017, , .		4
36	Regular graphs with forbidden subgraphs of K_n with k edges. International Journal of Information and Coding Theory, 2017, 4, 145.	0.3	0

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37	Metrics based on finite directed graphs. , 2016, , .		3
38	EXISTENCE OF -ANALOGS OF STEINERÂSYSTEMS. Forum of Mathematics, Pi, 2016, 4, .	1.1	48
39	Systematic Error-Correcting Codes for Permutations and Multi-Permutations. IEEE Transactions on Information Theory, 2016, 62, 3113-3124.	1.5	7
40	Vector network coding based on subspace codes outperforms scalar linear network coding. , 2016, , .		11
41	Constructions of high-rate minimum storage regenerating codes over small fields. , 2016, , .		5
42	Subspace Polynomials and Cyclic Subspace Codes. IEEE Transactions on Information Theory, 2016, 62, 1157-1165.	1.5	41
43	Optimal Ferrers Diagram Rank-Metric Codes. IEEE Transactions on Information Theory, 2016, 62, 1616-1630.	1.5	29
44	Galois geometries and coding theory. Designs, Codes, and Cryptography, 2016, 78, 311-350.	1.0	49
45	Bounds on the Size of Permutation Codes With the Kendall <inline-formula> <tex-math notation="LaTeX">$au $ </tex-math></inline-formula>-Metric. IEEE Transactions on Information Theory, 2015, 61, 3241-3250.	1.5	31
46	Subspace polynomials and cyclic subspace codes. , 2015, , .		2
47	Distributed storage systems based on intersecting subspace codes. , 2015, , .		9
48	Partial â€Parallelisms in Finite Projective Spaces. Journal of Combinatorial Designs, 2015, 23, 101-114.	0.3	5
49	Binary Polarization Kernels From Code Decompositions. IEEE Transactions on Information Theory, 2015, 61, 2227-2239.	1.5	37
50	Equidistant codes in the Grassmannian. Discrete Applied Mathematics, 2015, 186, 87-97.	0.5	21
51	Optimal Fractional Repetition Codes Based on Graphs and Designs. IEEE Transactions on Information Theory, 2015, 61, 4164-4180.	1.5	52
52	Systematic codes for rank modulation. , 2014, , .		4
53	Optimal fractional repetition codes for distributed storage systems. , 2014, , .		4
54	Perfect permutation codes with the Kendall's τ-metric. , 2014, , .		5

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55	Constructions of Snake-in-the-Box Codes for Rank Modulation. IEEE Transactions on Information Theory, 2014, 60, 7016-7025.	1.5	16
56	Covering of subspaces by subspaces. Designs, Codes, and Cryptography, 2014, 72, 405-421.	1.0	7
57	The q-analog of the middle levels problem. Discrete Mathematics, 2014, 331, 109-116.	0.4	0
58	Coding for the Lee and Manhattan metrics with weighing matrices. , 2013, , .		1
59	Tilings by $(0.5,n)$-Crosses and Perfect Codes. SIAM Journal on Discrete Mathematics, 2013, 27, 1067-1081.	0.4	3
60	Codes and Designs Related to Lifted MRD Codes. IEEE Transactions on Information Theory, 2013, 59, 1004-1017.	1.5	83
61	Coding for the Lee and Manhattan Metrics With Weighing Matrices. IEEE Transactions on Information Theory, 2013, 59, 6712-6723.	1.5	12
62	Errata to â€œCodes and Designs Related to Lifted MRD Codesâ€•[Feb 13 1004-1017]. IEEE Transactions on Information Theory, 2013, 59, 4730-4730.	1.5	0
63	Linearity and complements in projective space. Linear Algebra and Its Applications, 2013, 438, 57-70.	0.4	14
64	Error-correcting codes for multipermutations. , 2013, , .		16
65	Tilings With n-Dimensional Chairs and Their Applications to Asymmetric Codes. IEEE Transactions on Information Theory, 2013, 59, 1573-1582.	1.5	25
66	The Asymptotic Behavior of Grassmannian Codes. IEEE Transactions on Information Theory, 2012, 58, 6605-6609.	1.5	8
67	Simple and Robust Binary Self-Location Patterns. IEEE Transactions on Information Theory, 2012, 58, 4884-4889.	1.5	19
68	Enumerative Coding for Grassmannian Space. IEEE Transactions on Information Theory, 2011, 57, 365-374.	1.5	23
69	Error-Correcting Codes in Projective Space. IEEE Transactions on Information Theory, 2011, 57, 1165-1173.	1.5	163
70	Sequence Folding, Lattice Tiling, and Multidimensional Coding. IEEE Transactions on Information Theory, 2011, 57, 4383-4400.	1.5	7
71	Product Constructions for Perfect Lee Codes. IEEE Transactions on Information Theory, 2011, 57, 7473-7481.	1.5	32
72	Sidon sequences and doubly periodic two-dimensional synchronization patterns. , 2011, , .		0

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73	Codes and designs related to lifted MRD codes. , 2011, , .		11
74	On q-analogs of Steiner systems and covering designs. Advances in Mathematics of Communications, 2011, 5, 161-176.	0.4	23
75	Some new distance-4 constant weight codes. Advances in Mathematics of Communications, 2011, 5, 417-424.	0.4	17
76	Two-Dimensional Patterns With Distinct Differences—Constructions, Bounds, and Maximal Anticodes. IEEE Transactions on Information Theory, 2010, 56, 1216-1229.	1.5	11
77	Distinct Difference Configurations: Multihop Paths and Key Predistribution in Sensor Networks. IEEE Transactions on Information Theory, 2010, 56, 3961-3972.	1.5	13
78	Traceability codes. Journal of Combinatorial Theory - Series A, 2010, 117, 1049-1057.	0.5	14
79	Dense error-correcting codes in the Lee metric. , 2010, , .		6
80	High dimensional error-correcting codes. , 2010, , .		5
81	Error-Correction of Multidimensional Bursts. IEEE Transactions on Information Theory, 2009, 55, 961-976.	1.5	30
82	Error-Correcting Codes in Projective Spaces Via Rank-Metric Codes and Ferrers Diagrams. IEEE Transactions on Information Theory, 2009, 55, 2909-2919.	1.5	143
83	On Row-by-Row Coding for 2-D Constraints. IEEE Transactions on Information Theory, 2009, 55, 3565-3576.	1.5	8
84	Properties of the Error Linear Complexity Spectrum. IEEE Transactions on Information Theory, 2009, 55, 4681-4686.	1.5	20
85	Folding, tiling, and multidimensional coding. , 2009, , .		0
86	Optimal doubly constant weight codes. Journal of Combinatorial Designs, 2008, 16, 137-151.	0.3	12
87	A bound on the size of separating hash families. Journal of Combinatorial Theory - Series A, 2008, 115, 1246-1256.	0.5	20
88	Prolific Codes with the Identifiable Parent Property. SIAM Journal on Discrete Mathematics, 2008, 22, 1393-1410.	0.4	0
89	Construction of error-correcting codes for random network coding. , 2008, , .		2
90	Error-Correcting Codes in Projective Space. , 2008, , .		32

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91	On the error linear complexity profiles of binary sequences of period 2^n. , 2008, , .		1
92	Error-Correction of Multidimensional Bursts. , 2007, , .		2
93	Configuration distribution and designs of codes in the Johnson scheme. Journal of Combinatorial Designs, 2007, 15, 15-34.	0.3	7
94	New upper bounds on codes via association schemes and linear programming. Advances in Mathematics of Communications, 2007, 1, 173-195.	0.4	7
95	Optimal tristance anticodes in certain graphs. Journal of Combinatorial Theory - Series A, 2006, 113, 189-224.	0.5	8
96	The Positive Capacity Region of Two-Dimensional Run Length Constrained Channels. , 2006, , .		1
97	On the Optimality of Coloring with a Lattice. SIAM Journal on Discrete Mathematics, 2005, 18, 844-878.	0.4	3
98	Codes and Anticodes in the Grassman Graph. Journal of Combinatorial Theory - Series A, 2002, 97, 27-42.	0.5	64
99	On perfect codes in the Johnson scheme. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2001, , 125-130.	0.0	4
100	On perfect constant weight codes. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 2001, , 131-134.	0.0	3
101	On Perfect Codes and Tilings: Problems and Solutions. SIAM Journal on Discrete Mathematics, 1998, 11, 205-223.	0.4	68
102	Optimal constant weight codes over Zk and generalized designs. Discrete Mathematics, 1997, 169, 55-82.	0.4	58
103	Intersection of Isomorphic Linear Codes. Journal of Combinatorial Theory - Series A, 1997, 80, 247-256.	0.5	10
104	Nonequivalent q-Ary Perfect Codes. SIAM Journal on Discrete Mathematics, 1996, 9, 413-423.	0.4	11
105	On the Nonexistence of Perfect Codes in the Johnson Scheme. SIAM Journal on Discrete Mathematics, 1996, 9, 201-209.	0.4	20
106	On threshold schemes from large sets. Journal of Combinatorial Designs, 1996, 4, 323-338.	0.3	8
107	Permutation Polynomials, de Bruijn Sequences, and Linear Complexity. Journal of Combinatorial Theory - Series A, 1996, 76, 55-82.	0.5	37
108	On the chromatic number, colorings, and codes of the Johnson graph. Discrete Applied Mathematics, 1996, 70, 163-175.	0.5	19

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109	Bounds on the sizes of constant weight covering codes. Designs, Codes, and Cryptography, 1995, 5, 217-239.	1.0	21
110	Large sets of coverings. Journal of Combinatorial Designs, 1994, 2, 359-374.	0.3	8
111	The last packing number of quadruples, and cyclic SQS. Designs, Codes, and Cryptography, 1993, 3, 283-313.	1.0	19
112	Optimal partitions for triples. Journal of Combinatorial Theory - Series A, 1992, 59, 161-176.	0.5	9
113	Partitions of triples into optimal packings. Journal of Combinatorial Theory - Series A, 1992, 59, 269-284.	0.5	10
114	An explicit construction of Euler circuits in shuffle nets and related networks. Networks, 1992, 22, 523-529.	1.6	0
115	Hamiltonian decomposition of $K\hat{a}—n$, patterns with distinct differences, and Tuscan squares. Discrete Mathematics, 1991, 91, 259-276.	0.4	1
116	Combinatorial designs with Costas arrays properties. Discrete Mathematics, 1991, 93, 143-154.	0.4	10
117	Towards a Large Set of Steiner Quadruple Systems. SIAM Journal on Discrete Mathematics, 1991, 4, 182-195.	0.4	27
118	Self-dual sequences. Journal of Combinatorial Theory - Series A, 1987, 44, 288-298.	0.5	10
119	An algorithm for constructing m-ary de Bruijn sequences. Journal of Algorithms, 1986, 7, 331-340.	0.9	21
120	On the distribution of de bruijn sequences of low complexity. Journal of Combinatorial Theory - Series A, 1985, 38, 241-253.	0.5	7