

Haibin Kan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Data Collection Maximization in IoT-Sensor Networks via an Energy-Constrained UAV. IEEE Transactions on Mobile Computing, 2023, 22, 159-174.	3.9	38
2	Coherence Scaling of Noisy Second-Order Scale-Free Consensus Networks. IEEE Transactions on Cybernetics, 2022, 52, 5923-5934.	6.2	3
3	More classes of permutation quadrinomials from Niho exponents in characteristic two. Finite Fields and Their Applications, 2022, 78, 101962.	0.6	10
4	Fourier-Reflexive Partitions Induced by Poset Metric. IEEE Transactions on Information Theory, 2022, 68, 2319-2330.	1.5	2
5	Generic Constructions of (Boolean and Vectorial) Bent Functions and Their Consequences. IEEE Transactions on Information Theory, 2022, 68, 2735-2751.	1.5	7
6	A secure dual-color image watermarking scheme based 2D DWT, SVD and Chaotic map. Multimedia Tools and Applications, 2022, 81, 6159-6190.	2.6	15
7	Binary Locally Repairable Codes With Large Availability and its Application to Private Information Retrieval. IEEE Transactions on Information Theory, 2022, 68, 2203-2210.	1.5	2
8	1-Round Distributed Key Generation With Efficient Reconstruction Using Decentralized CP-ABE. IEEE Transactions on Information Forensics and Security, 2022, 17, 894-907.	4.5	3
9	A Galois Connection Approach to Wei-Type Duality Theorems. IEEE Transactions on Information Theory, 2022, 68, 5133-5144.	1.5	0
10	Preprocessing succinct non-interactive arguments for rank-1 constraint satisfiability from holographic proofs. Theoretical Computer Science, 2022, , .	0.5	0
11	Poster: Blockchain-Envisioned Secure Generic Communication Framework using Signcryption. , 2022, , .		0
12	Constructing New APN Functions Through Relative Trace Functions. IEEE Transactions on Information Theory, 2022, 68, 7528-7537.	1.5	8
13	Minimizing the Maximum Charging Delay of Multiple Mobile Chargers Under the Multi-Node Energy Charging Scheme. IEEE Transactions on Mobile Computing, 2021, 20, 1846-1861.	3.9	49
14	Two classes of permutation trinomials with Niho exponents. Finite Fields and Their Applications, 2021, 70, 101790.	0.6	9
15	New color image cryptosystem via SHA-512 and hybrid domain. Multimedia Tools and Applications, 2021, 80, 18875-18899.	2.6	9
16	Constructing vectorial bent functions via second-order derivatives. Discrete Mathematics, 2021, 344, 112473.	0.4	5
17	The Explicit Dual of Leander's Monomial Bent Function. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 1357-1360.	0.2	0
18	A New 10-Variable Cubic Bent Function Outside the Completed Maiorana-McFarland Class. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 1353-1356.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Further constructions of bent functions and their duals. IET Information Security, 2021, 15, 87-97.	1.1	3
20	Revocable Data Sharing Methodology Based on SGX and Blockchain. Lecture Notes in Computer Science, 2021, , 61-78.	1.0	1
21	Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2020, 19, 2699-2713.	3.9	47
22	Constructions of Locally Repairable Codes With Multiple Recovering Sets via Rational Function Fields. IEEE Transactions on Information Theory, 2020, 66, 202-209.	1.5	9
23	Two classes of permutation trinomials with Niho exponents over finite fields with even characteristic. Finite Fields and Their Applications, 2020, 68, 101754.	0.6	7
24	Edge Computing to Secure IoT Data Ownership and Trade with the Ethereum Blockchain. Sensors, 2020, 20, 3965.	2.1	37
25	Permutation polynomials $x^{\{2^k + 3\}} + a\{x^{\{2^k\}} + 2\} + bx$ over $\mathbb{F}_{2^{2k}}$ and their differential uniformity. Science China Information Sciences, 2020, 63, 1.	2.7	4
26	SAO 1-Resilient Functions With Lower Absolute Indicator in Even Variables. IEEE Access, 2020, 8, 222377-222384.	2.6	1
27	Several new infinite families of bent functions via second order derivatives. Cryptography and Communications, 2020, 12, 1143-1160.	0.9	14
28	On constructions and properties of (n, \hat{m}) -functions with maximal number of bent components. Designs, Codes, and Cryptography, 2020, 88, 2171-2186.	1.0	10
29	Characterizing differential support of vectorial Boolean functions using the Walsh transform. Science China Information Sciences, 2020, 63, 1.	2.7	1
30	Locally repairable codes from combinatorial designs. Science China Information Sciences, 2020, 63, 1.	2.7	5
31	Self-Dual Near MDS Codes from Elliptic Curves. IEEE Transactions on Information Theory, 2019, 65, 2166-2170.	1.5	15
32	A robust and lossless DNA encryption scheme for color images. Multimedia Tools and Applications, 2018, 77, 12349-12376.	2.6	76
33	Locally repairable codes with strict availability from linear functions. Science China Information Sciences, 2018, 61, 1.	2.7	3
34	Quantum MDS codes with relatively large minimum distance from Hermitian self-orthogonal codes. Designs, Codes, and Cryptography, 2017, 84, 463-471.	1.0	49
35	A New Construction of Exact-Repair MSR Codes Using Linearly Dependent Vectors. IEEE Communications Letters, 2017, 21, 1691-1694.	2.5	3
36	Lossless chaotic color image cryptosystem based on DNA encryption and entropy. Nonlinear Dynamics, 2017, 90, 855-875.	2.7	97

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37	Construction of binary linear codes via rational function fields. Designs, Codes, and Cryptography, 2017, 83, 633-638.	1.0	1
38	On the criteria for designing complex orthogonal space-time block codes. Science China Information Sciences, 2016, 59, 1.	2.7	2
39	A novel lossless color image encryption scheme using 2D DWT and 6D hyperchaotic system. Information Sciences, 2016, 349-350, 137-153.	4.0	183
40	Hermitian codes in distributed storage systems with optimal error-correcting capacity. , 2015, , .		1
41	Improved MILP Modeling for Automatic Security Evaluation and Application to FOX. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 72-80.	0.2	4
42	On the Minimum Decoding Delay of Balanced Complex Orthogonal Designs. IEEE Transactions on Information Theory, 2015, 61, 696-699.	1.5	8
43	A refined analysis on the jump number problem of interval orders. Information Processing Letters, 2015, 115, 797-800.	0.4	0
44	Construction of one special minimum storage regenerating code when $\hat{t}_{\pm}=2$. Science China Information Sciences, 2015, 58, 1-10.	2.7	2
45	Decoding of Dual-Containing Codes From Hermitian Tower and Applications. IEEE Transactions on Information Theory, 2015, 61, 5843-5847.	1.5	0
46	Revisiting a randomized algorithm for the minimum rainbow subgraph problem. Theoretical Computer Science, 2015, 593, 154-159.	0.5	0
47	Separable operations and local operations with classical communication on triqubit pure states. Physical Review A, 2014, 90, .	1.0	2
48	On the minimal energy of graphs. Linear Algebra and Its Applications, 2014, 453, 141-153.	0.4	7
49	A note on sparse solutions of sparse linear systems. Theoretical Computer Science, 2014, 552, 109-111.	0.5	0
50	Linear Exact-Repair Construction of Hybrid MSR Codes in Distributed Storage Systems. IEEE Communications Letters, 2014, 18, 1095-1098.	2.5	5
51	An Average-Case Efficient Algorithm on Testing the Identity of Boolean Functions in Trace Representation. IEICE Transactions on Information and Systems, 2014, E97.D, 583-588.	0.4	0
52	The Degree of Two Classes of 3rd Order Correlation Immune Symmetric Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 365-370.	0.2	1
53	Explicit-form complex orthogonal design for space-time block codes. Science China Information Sciences, 2013, 56, 1-10.	2.7	2
54	Standard form for balanced complex orthogonal design. , 2013, , .		0

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55	An efficient interpolation-based systematic encoder for low-rate Blaum-Roth codes. , 2013, , .		1
56	An Efficient Hybrid Cryptographic Scheme for Wireless Sensor Network with Network Coding. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1889-1894.	0.2	3
57	Practically Feasible Design for Convolutional Network Code. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 1895-1900.	0.2	2
58	Novel constructions of complex orthogonal designs for space-time block codes. , 2012, , .		0
59	Smaller Bound of Superconcentrator. IEICE Transactions on Information and Systems, 2012, E95.D, 2339-2342.	0.4	0
60	A characterization of solvability for a class of networks. Science China Information Sciences, 2012, 55, 747-754.	2.7	5
61	A construction method of matroidal networks. Science China Information Sciences, 2012, 55, 2445-2453.	2.7	3
62	A new scheme of digital communication using chaotic signals in MIMO channels. Science China Information Sciences, 2012, 55, 2183-2193.	2.7	3
63	A Note on the Construction of Differentially Uniform Permutations Using Extension Fields. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 2080-2083.	0.2	1
64	A novel elementary construction of matching vectors. Information Processing Letters, 2012, 112, 494-496.	0.4	4
65	Complex Orthogonal Designs With Forbidden 2×2 Submatrices. IEEE Transactions on Information Theory, 2012, 58, 4825-4836.	1.5	13
66	On $2k$ -Variable Symmetric Boolean Functions With Maximum Algebraic Immunity k . IEEE Transactions on Information Theory, 2012, 58, 5612-5624.	1.5	16
67	Constructing Rotation Symmetric Boolean Functions with Maximum Algebraic Immunity on an Odd Number of Variables. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1056-1064.	0.2	2
68	Constructing Correlation Immune Symmetric Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 1591-1596.	0.2	6
69	On Symmetric Boolean Functions With High Algebraic Immunity on Even Number of Variables. IEEE Transactions on Information Theory, 2011, 57, 7205-7220.	1.5	31
70	Holographic reduction for some counting problems. Information Processing Letters, 2011, 111, 761-766.	0.4	0
71	On systematic encoding for Blaum-Roth codes. , 2011, , .		1
72	Constructing Even-Variable Symmetric Boolean Functions with High Algebraic Immunity. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 362-366.	0.2	1

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73	Annihilators and Algebraic Immunity of Symmetric Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 1434-1440.	0.2	3
74	A Constructive Method of Algebraic Attack with Less Keystream Bits. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 2059-2062.	0.2	0
75	A Note on "On the Construction of Boolean Functions with Optimal Algebraic Immunity", IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 1877-1880.	0.2	0
76	The maximal rates and minimal decoding delay of more general complex orthogonal designs. Science China Information Sciences, 2010, 53, 1826-1832.	2.7	4
77	Counting irreducible polynomials over finite fields. Czechoslovak Mathematical Journal, 2010, 60, 881-886.	0.3	2
78	Constructions of Cryptographically Significant Boolean Functions Using Primitive Polynomials. IEEE Transactions on Information Theory, 2010, 56, 3048-3053.	1.5	78
79	Constructing and Counting Boolean Functions on Even Variables with Maximum Algebraic Immunity. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 640-643.	0.2	4
80	The generalization of some trellis properties of linear codes to group codes. Science in China Series F: Information Sciences, 2009, 52, 797-803.	1.1	0
81	A New Quaternion Design for Space-Time-Polarization Block Code with Full Diversity. IEICE Transactions on Communications, 2009, E92-B, 671-674.	0.4	1
82	The capacity factors of a network. , 2007, , .		1
83	Network Coding With Interleaving. , 2007, , .		4
84	The maximal rates of more general complex orthogonal designs. , 2005, , .		1
85	On Schnorr-Adleman lattice. , 0, , .		0
86	Some Combinatorial Problems in Power-Law Graphs. Computer Journal, 0, , .	1.5	0