Haibin Kan

List of Publications by Year
in descending order

86 papers	950 citations	686830 13 h-index	476904 29 g-index
87 all docs	87 docs citations	87 times ranked	692 citing authors

#	ARTICLE	IF	CITATIONS
1	A novel lossless color image encryption scheme using 2D DWT and 6D hyperchaotic system. Information Sciences, 2016, 349-350, 137-153.	4.0	183
2	Lossless chaotic color image cryptosystem based on DNA encryption and entropy. Nonlinear Dynamics, 2017, 90, 855-875.	2.7	97
3	Constructions of Cryptographically Significant Boolean Functions Using Primitive Polynomials. IEEE Transactions on Information Theory, 2010, 56, 3048-3053.	1.5	78
4	A robust and lossless DNA encryption scheme for color images. Multimedia Tools and Applications, 2018, 77, 12349-12376.	2.6	76
5	Quantum MDS codes with relatively large minimum distance from Hermitian self-orthogonal codes. Designs, Codes, and Cryptography, 2017, 84, 463-471.	1.0	49
6	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
7	Reliability-Aware Virtualized Network Function Services Provisioning in Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2020, 19, 2699-2713.	3.9	47
8	Data Collection Maximization in IoT-Sensor Networks via an Energy-Constrained UAV. IEEE Transactions on Mobile Computing, 2023, 22, 159-174.	3.9	38
9	Edge Computing to Secure IoT Data Ownership and Trade with the Ethereum Blockchain. Sensors, 2020, 20, 3965.	2.1	37
10	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
11	On $2k$-Variable Symmetric Boolean Functions With Maximum Algebraic Immunity k. IEEE Transactions on Information Theory, 2012, 58, 5612-5624.	1.5	16
12	Self-Dual Near MDS Codes from Elliptic Curves. IEEE Transactions on Information Theory, 2019, 65, 2166-2170.	1.5	15
13	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
14	Several new infinite families of bent functions via second order derivatives. Cryptography and Communications, 2020, 12, 1143-1160.	0.9	14
15	Complex Orthogonal Designs With Forbidden 2×2 Submatrices. IEEE Transactions on Information Theory, 2012, 58, 4825-4836.	1.5	13
16	On constructions and properties of (n,Âm)-functions with maximal number of bent components. Designs, Codes, and Cryptography, 2020, 88, 2171-2186.	1.0	10
17	More classes of permutation quadrinomials from Niho exponents in characteristic two. Finite Fields and Their Applications, 2022, 78, 101962.	0.6	10
18	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

#	ARTICLE	IF	CITATIONS
19	Two classes of permutation trinomials with Niho exponents. Finite Fields and Their Applications, 2021, 70, 101790.	0.6	9
20	New color image cryptosystem via SHA-512 and hybrid domain. Multimedia Tools and Applications, 2021, 80, 18875-18899.	2.6	9
21	On the Minimum Decoding Delay of Balanced Complex Orthogonal Designs. IEEE Transactions on Information Theory, 2015, 61, 696-699.	1.5	8
22	Constructing New APN Functions Through Relative Trace Functions. IEEE Transactions on Information Theory, 2022, 68, 7528-7537.	1.5	8
23	On the minimal energy of graphs. Linear Algebra and Its Applications, 2014, 453, 141-153.	0.4	7
24	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
25	Generic Constructions of (Boolean and Vectorial) Bent Functions and Their Consequences. IEEE Transactions on Information Theory, 2022, 68, 2735-2751.	1.5	7
26	Constructing Correlation Immune Symmetric Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 1591-1596.	0.2	6
27	A characterization of solvability for a class of networks. Science China Information Sciences, 2012, 55, 747-754.	2.7	5
28	Linear Exact-Repair Construction of Hybrid MSR Codes in Distributed Storage Systems. IEEE Communications Letters, 2014, 18, 1095-1098.	2.5	5
29	Locally repairable codes from combinatorial designs. Science China Information Sciences, 2020, 63, 1.	2.7	5
30	Constructing vectorial bent functions via second-order derivatives. Discrete Mathematics, 2021, 344, 112473.	0.4	5
31	Network Coding With Interleaving. , 2007, , .		4
32	The maximal rates and minimal decoding delay of more general complex orthogonal designs. Science China Information Sciences, 2010, 53, 1826-1832.	2.7	4
33	A novel elementary construction of matching vectors. Information Processing Letters, 2012, 112, 494-496.	0.4	4
34	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
35	Permutation polynomials $${x^{{2^{k + 1}} + 3}} + a{x^{{2^k} + 2}} + bx$$ over $${F_{{2^{2k}}}}$$ and their differential uniformity. Science China Information Sciences, 2020, 63, 1.	2.7	4
36	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

#	Article	IF	Citations
37	A construction method of matroidal networks. Science China Information Sciences, 2012, 55, 2445-2453.	2.7	3
38	A new scheme of digital communication using chaotic signals in MIMO channels. Science China Information Sciences, 2012, 55, 2183-2193.	2.7	3
39	A New Construction of Exact-Repair MSR Codes Using Linearly Dependent Vectors. IEEE Communications Letters, 2017, 21, 1691-1694.	2.5	3
40	Locally repairable codes with strict availability from linear functions. Science China Information Sciences, 2018, 61, 1.	2.7	3
41	Coherence Scaling of Noisy Second-Order Scale-Free Consensus Networks. IEEE Transactions on Cybernetics, 2022, 52, 5923-5934.	6.2	3
42	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
43	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
44	Further constructions of bent functions and their duals. IET Information Security, 2021, 15, 87-97.	1.1	3
45	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
46	Counting irreducible polynomials over finite fields. Czechoslovak Mathematical Journal, 2010, 60, 881-886.	0.3	2
47	Explicit-form complex orthogonal design for space-time block codes. Science China Information Sciences, 2013, 56, 1-10.	2.7	2
48	Separable operations and local operations with classical communication on triqubit pure states. Physical Review A, 2014, 90, .	1.0	2
49	Construction of one special minimum storage regenerating code when Î±=2. Science China Information Sciences, 2015, 58, 1-10.	2.7	2
50	On the criteria for designing complex orthogonal space-time block codes. Science China Information Sciences, 2016, 59, 1.	2.7	2
51	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
52	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
53	Fourier-Reflexive Partitions Induced by Poset Metric. IEEE Transactions on Information Theory, 2022, 68, 2319-2330.	1.5	2
54	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

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55	The maximal rates of more general complex orthogonal designs. , 2005, , .		1
56	The capacity factors of a network. , 2007, , .		1
57	On systematic encoding for Blaum-Roth codes. , 2011, , .		1
58	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
59	An efficient interpolation-based systematic encoder for low-rate Blaum-Roth codes. , 2013, , .		1
60	Hermitian codes in distributed storage systems with optimal error-correcting capacity. , 2015, , .		1
61	Construction of binary linear codes via rational function fields. Designs, Codes, and Cryptography, 2017, 83, 633-638.	1.0	1
62	SAO 1-Resilient Functions With Lower Absolute Indicator in Even Variables. IEEE Access, 2020, 8, 222377-222384.	2.6	1
63	Characterizing differential support of vectorial Boolean functions using the Walsh transform. Science China Information Sciences, 2020, 63, 1.	2.7	1
64	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
65	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
66	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
67	Revocable Data Sharing Methodology Based on SGX and Blockchain. Lecture Notes in Computer Science, 2021, , 61-78.	1.0	1
68	On Schnorr-Adleman lattice. , 0, , .		0
69	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
70	Holographic reduction for some counting problems. Information Processing Letters, 2011, 111, 761-766.	0.4	0
71	Novel constructions of complex orthogonal designs for space-time block codes. , 2012, , .		0
72	Smaller Bound of Superconcentrator. IEICE Transactions on Information and Systems, 2012, E95.D, 2339-2342.	0.4	0

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73	Standard form for balanced complex orthogonal design. , 2013, , .		0
74	A note on sparse solutions of sparse linear systems. Theoretical Computer Science, 2014, 552, 109-111.	0.5	0
75	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
76	A refined analysis on the jump number problem of interval orders. Information Processing Letters, 2015, 115, 797-800.	0.4	0
77	Decoding of Dual-Containing Codes From Hermitian Tower and Applications. IEEE Transactions on Information Theory, 2015, 61, 5843-5847.	1.5	0
78	Revisiting a randomized algorithm for the minimum rainbow subgraph problem. Theoretical Computer Science, 2015, 593, 154-159.	0.5	0
79	Some Combinatorial Problems in Power-Law Graphs. Computer Journal, 0, , .	1.5	0
80	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
81	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
82	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
83	A Note on â€œOn the Construction of Boolean Functions with Optimal Algebraic Immunityâ€. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 1877-1880.	0.2	0
84	A Galois Connection Approach to Wei-Type Duality Theorems. IEEE Transactions on Information Theory, 2022, 68, 5133-5144.	1.5	0
85	Preprocessing succinct non-interactive arguments for rank-1 constraint satisfiability from holographic proofs. Theoretical Computer Science, 2022, , .	0.5	0
86	Poster: Blockchain-Envisioned Secure Generic Communication Framework using Signcryption. , 2022, , .		0