Deng Tang

List of Publications by Year
in descending order

40 papers	414 citations	840776 11 h-index	839539 18 g-index
41 all docs	41 docs citations	41 times ranked	169 citing authors

#	Article	IF	Citations
1	Highly Nonlinear Boolean Functions With Optimal Algebraic Immunity and Good Behavior Against Fast Algebraic Attacks. IEEE Transactions on Information Theory, 2013, 59, 653-664.	2.4	79
2	Differentially 4-uniform bijections by permuting the inverse function. Designs, Codes, and Cryptography, 2015, 77, 117-141.	1.6	52
3	Construction of n -Variable ($\nequiv 2 \bmod 4$) Balanced Boolean Functions With Maximum Absolute Value in Autocorrelation Spectra $. IEEE Transactions on Information Theory, 2018, 64, 393-402.	2.4	23
4	Construction of balanced Boolean functions with high nonlinearity and good autocorrelation properties. Designs, Codes, and Cryptography, 2013, 67, 77-91.	1.6	18
5	On the second-order nonlinearities of some bent functions. Information Sciences, 2013, 223, 322-330.	6.9	16
6	Construction of Highly Nonlinear 1-Resilient Boolean Functions with Optimal Algebraic Immunity and Provably High Fast Algebraic Immunity. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	14
7	A family of weightwise (almost) perfectly balanced boolean functions with optimal algebraic immunity. Cryptography and Communications, 2019, 11, 1185-1197.	1.4	14
8	Binary linear codes from vectorial boolean functions and their weight distribution. Discrete Mathematics, 2017, 340, 3055-3072.	0.7	13
9	Construction and search of balanced Boolean functions on even number of variables towards excellent autocorrelation profile. Designs, Codes, and Cryptography, 2019, 87, 261-276.	1.6	13
10	The weight distribution of a class of two-weight linear codes derived from Kloosterman sums. Cryptography and Communications, 2018, 10, 291-299.	1.4	12
11	A CLASS OF 1-RESILIENT BOOLEAN FUNCTIONS WITH OPTIMAL ALGEBRAIC IMMUNITY AND GOOD BEHAVIOR AGAINST FAST ALGEBRAIC ATTACKS. International Journal of Foundations of Computer Science, 2014, 25, 763-780.	1.1	11
12	The Exact Fast Algebraic Immunity of Two Subclasses of the Majority Function. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 2084-2088.	0.3	11
13	More classes of permutation quadrinomials from Niho exponents in characteristic two. Finite Fields and Their Applications, 2022, 78, 101962.	1.0	10
14	Construction of highly nonlinear resilient Boolean functions satisfying strict avalanche criterion. Science China Information Sciences, 2014, 57, 1-6.	4.3	9
15	Enhanced Boolean functions suitable for the filter model of pseudo-random generator. Designs, Codes, and Cryptography, 2015, 76, 571-587.	1.6	9
16	Modifying Maiorana–McFarland Type Bent Functions for Good Cryptographic Properties and Efficient Implementation. SIAM Journal on Discrete Mathematics, 2019, 33, 238-256.	0.8	9
17	Intrinsic Resiliency of S-Boxes Against Side-Channel Attacks–Best and Worst Scenarios. IEEE Transactions on Information Forensics and Security, 2021, 16, 203-218.	6.9	9
18	Two classes of permutation trinomials with Niho exponents. Finite Fields and Their Applications, 2021, 70, 101790.	1.0	9

#	Article	IF	Citations
19	Translation Equivalence of Boolean Functions Expressed by Primitive Element. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 672-675.	0.3	9
20	Cryptographic properties of monotone Boolean functions. Journal of Mathematical Cryptology, 2016, 10, 1-14.	0.7	8
21	A new lower bound on the second-order nonlinearity of a class of monomial bent functions. Cryptography and Communications, 2020, 12, 77-83.	1.4	8
22	Constructing New APN Functions Through Relative Trace Functions. IEEE Transactions on Information Theory, 2022, 68, 7528-7537.	2.4	8
23	A Lower Bound on the Second-Order Nonlinearity of the Generalized Maiorana-McFarland Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 2397-2401.	0.3	7
24	Constructions of optimal locally recoverable codes via Dickson polynomials. Designs, Codes, and Cryptography, 2020, 88, 1759-1780.	1.6	7
25	Constructing vectorial bent functions via second-order derivatives. Discrete Mathematics, 2021, 344, 112473.	0.7	5
26	Improving lower bounds on the second-order nonlinearity of three classes of Boolean functions. Discrete Mathematics, 2020, 343, 111698.	0.7	4
27	A family of linear codes from constant dimension subspace codes. Designs, Codes, and Cryptography, 2022, 90, 1-15.	1.6	4
28	A Class of Distance-Optimal Binary Linear Codes With Flexible Parameters. IEEE Communications Letters, 2017, 21, 1893-1896.	4.1	3
29	A note on the minimal binary linear code. Cryptography and Communications, 2020, 12, 375-388.	1.4	3
30	Further cryptographic properties of the multiplicative inverse function. Discrete Applied Mathematics, 2022, 307, 191-211.	0.9	3
31	Vectorial Boolean Functions with Very Low Differential-Linear Uniformity Using Maiorana-McFarland Type Construction. Lecture Notes in Computer Science, 2019, , 341-360.	1.3	2
32	A Family of at Least Almost Optimal p-Ary Cyclic Codes. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2048-2051.	0.3	2
33	Semi-bent functions with perfect three-level additive autocorrelation. , 2017, , .		1
34	On Searching Maximal-Period Dynamic LFSRs With at Most Four Switches. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 152-154.	0.3	1
35	A lower bound on the second-order nonlinearity of the class of Maiorana-McFarland bent functions. , 2017, , .		0
36	On the Construction of Balanced Boolean Functions with Strict Avalanche Criterion and Optimal Algebraic Immunity. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 1321-1325.	0.3	0

#	ARTICLE	IF	CITATIONS
37	A Note on the Algebraic Immunity of the Enhanced Boolean Functions. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 366-369.	0.3	0
38	Construction of balanced vectorial Boolean functions with almost optimal nonlinearity and very low differential-linear uniformity. Finite Fields and Their Applications, 2021, 76, 101903.	1.0	0
39	Two Constructions of Semi-Bent Functions with Perfect Three-Level Additive Autocorrelation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 2402-2404.	0.3	0
40	The second-order zero differential spectra of almost perfect nonlinear functions and the inverse function in odd characteristic. Cryptography and Communications, 0, , 1.	1.4	0