Pantelimon StănicăƑ

List of Publications by Year
in descending order

84 papers	1,050 citations	516710 16 h-index	501196 28 g-index
86 all docs	86 docs citations	86 times ranked	290 citing authors

#	Article	IF	Citations
1	On the existence and non-existence of some classes of bent–negabent functions. Applicable Algebra in Engineering, Communications and Computing, 2022, 33, 237-260.	0.5	6
2	On the behavior of some APN permutations under swapping points. Cryptography and Communications, 2022, 14, 319-345.	1.4	1
3	The *c*-Differential Uniformity and Boomerang Uniformity of Two Classes of Permutation Polynomials. IEEE Transactions on Information Theory, 2022, 68, 679-691.	2.4	15
4	C-differential bent functions and perfect nonlinearity. Discrete Applied Mathematics, 2022, 307, 160-171.	0.9	1
5	Improving bounds on probabilistic affine tests to estimate the nonlinearity of Boolean functions. Cryptography and Communications, 2022, 14, 459-481.	1.4	3
6	Low c-differential uniformity for functions modified on subfields. Cryptography and Communications, 2022, 14, 1211-1227.	1.4	6
7	The binary Gold function and its c-boomerang connectivity table. Cryptography and Communications, 2022, 14, 1257-1280.	1.4	8
8	On the c-differential uniformity of certain maps over finite fields. Designs, Codes, and Cryptography, 2021, 89, 221-239.	1.6	30
9	Low c-Differential Uniformity for the Gold Function Modified on a Subfield. Lecture Notes in Electrical Engineering, 2021, , 131-137.	0.4	5
10	The c-differential behavior of the inverse function under the EA-equivalence. Cryptography and Communications, 2021, 13, 295-306.	1.4	12
11	Characters, Weil sums and c-differential uniformity with an application to the perturbed Gold function. Cryptography and Communications, 2021, 13, 891.	1.4	5
12	Boomerang uniformity of a class of power maps. Designs, Codes, and Cryptography, 2021, 89, 2627-2636.	1.6	9
13	Low c-differential and c-boomerang uniformity of the swapped inverse function. Discrete Mathematics, 2021, 344, 112543.	0.7	13
14	Investigations on *c*-(Almost) Perfect Nonlinear Functions. IEEE Transactions on Information Theory, 2021, 67, 6916-6925.	2.4	25
15	Investigations on c-boomerang uniformity and perfect nonlinearity. Discrete Applied Mathematics, 2021, 304, 297-314.	0.9	10
16	Partially APN Boolean functions and classes of functions that are not APN infinitely often. Cryptography and Communications, 2020, 12, 527-545.	1.4	3
17	Analysis on Boolean Function in a Restricted (Biased) Domain. IEEE Transactions on Information Theory, 2020, 66, 1219-1231.	2.4	8
18	A quantum algorithm to estimate the Gowers U_2 norm and linearity testing of Boolean functions. Quantum Information Processing, 2020, 19, 1.	2.2	2

#	ARTICLE	IF	CITATIONS
19	*C*-Differentials, Multiplicative Uniformity, and (Almost) Perfect *c*-Nonlinearity. IEEE Transactions on Information Theory, 2020, 66, 5781-5789.	2.4	39
20	Vanishing Flats: A Combinatorial Viewpoint on the Planarity of Functions and Their Application. IEEE Transactions on Information Theory, 2020, 66, 7101-7112.	2.4	6
21	Root-Hadamard transforms and complementary sequences. Cryptography and Communications, 2020, 12, 1035-1049.	1.4	2
22	Partially APN functions with APN-like polynomial representations. Designs, Codes, and Cryptography, 2020, 88, 1159-1177.	1.6	1
23	Generalized bent Boolean functions and strongly regular Cayley graphs. Discrete Applied Mathematics, 2020, 283, 367-374.	0.9	0
24	On the prime factors of the iterates of the Ramanujan *Ï„*–function. Proceedings of the Edinburgh Mathematical Society, 2020, 63, 1031-1047.	0.3	1
25	Post–quantum protocol for computing set intersection cardinality with linear complexity. IET Information Security, 2020, 14, 661-669.	1.7	2
26	New bounds on the covering radius of the second order Reed-Muller code of length 128. Cryptography and Communications, 2019, 11, 269-277.	1.4	4
27	Multiple characters transforms and generalized Boolean functions. Cryptography and Communications, 2019, 11, 1247-1260.	1.4	4
28	Perfect Squares as Concatenation of Consecutive Integers. American Mathematical Monthly, 2019, 126, 728-734.	0.3	0
29	The connection between quadratic bent–negabent functions and the Kerdock code. Applicable Algebra in Engineering, Communications and Computing, 2019, 30, 387-401.	0.5	5
30	Transparency order for Boolean functions: analysis and construction. Designs, Codes, and Cryptography, 2019, 87, 2043-2059.	1.6	15
31	A trigonometric sum sharp estimate and new bounds on the nonlinearity of some cryptographic Boolean functions. Designs, Codes, and Cryptography, 2019, 87, 1749-1763.	1.6	4
32	New classes of p-ary bent functions. Cryptography and Communications, 2019, 11, 77-92.	1.4	4
33	Landscape Boolean functions. Advances in Mathematics of Communications, 2019, 13, 613-627.	0.7	2
34	Generalized Walsh transforms of symmetric and rotation symmetric Boolean functions are linear recurrent. Applicable Algebra in Engineering, Communications and Computing, 2018, 29, 433-453.	0.5	6
35	Gowers U_3 norm of some classes of bent Boolean functions. Designs, Codes, and Cryptography, 2018, 86, 1131-1148.	1.6	6
36	Tools in Analyzing Linear Approximation for Boolean Functions Related to FLIP. Lecture Notes in Computer Science, 2018, , 282-303.	1.3	9

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37	A Complete Characterization ofÂPlateaued Boolean Functions in Terms ofÂTheir Cayley Graphs. Lecture Notes in Computer Science, 2018, , 3-10.	1.3	2
38	On Symmetry and Differential Properties of Generalized Boolean Functions. Lecture Notes in Computer Science, 2018, , 207-223.	1.3	0
39	Cryptographic Boolean functions with biased inputs. Cryptography and Communications, 2017, 9, 301-314.	1.4	8
40	MONOTONIC PHINOMIAL COEFFICIENTS. Bulletin of the Australian Mathematical Society, 2017, 95, 365-372.	0.5	1
41	Cubic Maioranaâ€"McFarland bent functions with no affine derivative. International Journal of Computer Mathematics: Computer Systems Theory, 2017, 2, 14-27.	1.1	5
42	Bisecting binomial coefficients. Discrete Applied Mathematics, 2017, 227, 70-83.	0.9	4
43	Counting permutation equivalent degree six binary polynomials invariant under the cyclic group. Applicable Algebra in Engineering, Communications and Computing, 2017, 28, 1-10.	0.5	3
44	Bent Boolean Functions. , 2017, , 83-108.		26
45	Special Types of Boolean Functions. , 2017, , 109-142.		1
46	Stream Cipher Design. , 2017, , 143-185.		1
47	Partial spread and vectorial generalized bent functions. Designs, Codes, and Cryptography, 2017, 85, 1-13.	1.6	21
48	Decomposing Generalized Bent and Hyperbent Functions. IEEE Transactions on Information Theory, 2017, 63, 7804-7812.	2.4	17
49	Quantum Algorithms Related to $$extit{HN}$$ -Transforms of Boolean Functions. Lecture Notes in Computer Science, 2017, , 314-327.	1.3	2
50	An Analysis of the ? Class of Bent Functions. Fundamenta Informaticae, 2016, 146, 271-292.	0.4	11
51	On Fibonacci numbers which are elliptic Carmichael. Periodica Mathematica Hungarica, 2016, 72, 171-179.	0.9	0
52	A Parallel Approach in Computing Correlation Immunity up to Six Variables. International Journal of Foundations of Computer Science, 2016, 27, 511-528.	1.1	5
53	Cryptographic properties of monotone Boolean functions. Journal of Mathematical Cryptology, 2016, 10, 1-14.	0.7	8
54	Further results on constructions of generalized bent Boolean functions. Science China Information Sciences, 2016, 59, 1.	4.3	3

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55	Counting equivalence classes for monomial rotation symmetric Boolean functions with prime dimension. Cryptography and Communications, 2016, 8, 67-81.	1.4	3
56	On a divisibility relation for Lucas sequences. Journal of Number Theory, 2016, 163, 1-18.	0.4	4
57	On Weak and Strong -Bent Boolean Functions. IEEE Transactions on Information Theory, 2016, 62, 2827-2835.	2.4	11
58	Generalized Bent Functions and Their Gray Images. Lecture Notes in Computer Science, 2016, , 160-173.	1.3	11
59	A construction of Boolean functions with good cryptographic properties. International Journal of Computer Mathematics, 2015, 92, 700-711.	1.8	1
60	Circulant matrices and affine equivalence of monomial rotation symmetric Boolean functions. Discrete Mathematics, 2015, 338, 2197-2211.	0.7	7
61	Affine equivalence of quartic monomial rotation symmetric Boolean functions in prime power dimension. Information Sciences, 2015, 314, 212-224.	6.9	7
62	Extended Closed-Form Expressions for the Robust Symmetrical Number System Dynamic Range and an Efficient Algorithm for Its Computation. IEEE Transactions on Information Theory, 2014, 60, 1742-1752.	2.4	7
63	Cryptographic properties of the hidden weighted bit function. Discrete Applied Mathematics, 2014, 174, 1-10.	0.9	17
64	COUNTING HERON TRIANGLES WITH CONSTRAINTS. , 2014, , 24-40.		2
65	Concatenations of the hidden weighted bit function and their cryptographic properties. Advances in Mathematics of Communications, 2014, 8, 153-165.	0.7	6
66	Bent and generalized bent Boolean functions. Designs, Codes, and Cryptography, 2013, 69, 77-94.	1.6	46
67	A Note on Generalized Bent Criteria for Boolean Functions. IEEE Transactions on Information Theory, 2013, 59, 3233-3236.	2.4	15
68	The inverse of banded matrices. Journal of Computational and Applied Mathematics, 2013, 237, 126-135.	2.0	29
69	Investigations on Bent and Negabent Functions via the Nega-Hadamard Transform. IEEE Transactions on Information Theory, 2012, 58, 4064-4072.	2.4	59
70	Third-order family of methods in Banach spaces. Computers and Mathematics With Applications, 2011, 61, 1665-1675.	2.7	38
71	On a Combinatorial Conjecture. Integers, 2011, 11, .	0.3	13
72	Nega–Hadamard Transform, Bent and Negabent Functions. Lecture Notes in Computer Science, 2010, , 359-372.	1.3	11

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73	ON MACHIN'S FORMULA WITH POWERS OF THE GOLDEN SECTION. International Journal of Number Theory, 2009, 05, 973-979.	0.5	4
74	On a conjecture for balanced symmetric Boolean functions. Journal of Mathematical Cryptology, 2009, 3, .	0.7	17
75	On digit sums of multiples of an integer. Journal of Number Theory, 2009, 129, 2820-2830.	0.4	5
76	A bit of history. , 2009, , 1-4.		4
77	Bent Boolean functions. , 2009, , 73-118.		40
78	Rotation symmetric Boolean functionsâ€"Count and cryptographic properties. Discrete Applied Mathematics, 2008, 156, 1567-1580.	0.9	105
79	Balanced Symmetric Functions Over ${hbox{GF}}(p)$. IEEE Transactions on Information Theory, 2008, 54, 1304-1307.	2.4	34
80	Heron triangles with two fixed sides. Journal of Number Theory, 2007, 126, 52-67.	0.4	5
81	Almost Boolean Functions: The Design of Boolean Functions by Spectral Inversion. Computational Intelligence, 2004, 20, 450-462.	3.2	35
82	Results on Rotation Symmetric Bent and Correlation Immune Boolean Functions. Lecture Notes in Computer Science, 2004, , 161-177.	1.3	45
83	Fast evaluation, weights and nonlinearity of rotation-symmetric functions. Discrete Mathematics, 2002, 258, 289-301.	0.7	69
84	Using double Weil sums in finding the c-boomerang connectivity table for monomial functions on finite fields. Applicable Algebra in Engineering, Communications and Computing, 0, , 1.	0.5	7