Tor Helleseth

List of Publications by Year
in descending order

62 papers	1,804 citations	304602 22 h-index	276775 41 g-index
65 all docs	65 docs citations	65 times ranked	396 citing authors

#	Article	IF	Citations
1	Five-weight codes from three-valued correlation of M-sequences. Advances in Mathematics of Communications, 2023, 17, 799-814.	0.4	4
2	Covering Radius of Melas Codes. IEEE Transactions on Information Theory, 2022, 68, 4354-4364.	1.5	1
3	Binary Linear Codes With Few Weights From Two-to-One Functions. IEEE Transactions on Information Theory, 2021, 67, 4263-4275.	1.5	10
4	The Resolution of Niho's Last Conjecture Concerning Sequences, Codes, and Boolean Functions. IEEE Transactions on Information Theory, 2021, 67, 6952-6962.	1.5	1
5	The linear complexity of generalized cyclotomic binary sequences of period $$p^n$$ p n. Designs, Codes, and Cryptography, 2019, 87, 1183-1197.	1.0	13
6	Differential Spectrum of Kasami Power Permutations Over Odd Characteristic Finite Fields. IEEE Transactions on Information Theory, 2019, 65, 6819-6826.	1.5	15
7	Solomon W. Golomb—Mathematician, Engineer, and Pioneer. IEEE Transactions on Information Theory, 2018, 64, 2844-2857.	1.5	18
8	The weight distribution of a class of two-weight linear codes derived from Kloosterman sums. Cryptography and Communications, 2018, 10, 291-299.	0.9	12
9	New generalized cyclotomic binary sequences of period $$p^2$$ p 2. Designs, Codes, and Cryptography, 2018, 86, 1483-1497.	1.0	19
10	Several classes of permutation trinomials from Niho exponents. Cryptography and Communications, 2017, 9, 693-705.	0.9	48
11	Generic Construction of Bent Functions and Bent Idempotents With Any Possible Algebraic Degrees. IEEE Transactions on Information Theory, 2017, 63, 6149-6157.	1.5	25
12	On the Correlation Distribution for a Niho Decimation. IEEE Transactions on Information Theory, 2017, 63, 7206-7218.	1.5	9
13	An Open Problem on the Distribution of a Niho-Type Cross-Correlation Function. IEEE Transactions on Information Theory, 2016, 62, 7546-7554.	1.5	13
14	Linear codes with two or three weights from quadratic Bent functions. Designs, Codes, and Cryptography, 2016, 81, 283-295.	1.0	104
15	Linear Codes With Two or Three Weights From Weakly Regular Bent Functions. IEEE Transactions on Information Theory, 2016, 62, 1166-1176.	1.5	115
16	Some Results on Cross-Correlation Distribution Between a <inline-formula> <tex-math notation="TeX">(p) </tex-math></inline-formula>-Ary <inline-formula> <tex-math notation="TeX">(m) </tex-math></inline-formula>-Sequence and Its Decimated Sequences. IEEE Transactions on Information Theory, 2014, 60, 7368-7381.	1.5	12
17	New Constructions of Quadratic Bent Functions in Polynomial Form. IEEE Transactions on Information Theory, 2014, 60, 5760-5767.	1.5	25
18	Several New Classes of Bent Functions From Dillon Exponents. IEEE Transactions on Information Theory, 2013, 59, 1818-1831.	1.5	47

#	Article	IF	Citations
19	New nonbinary sequence families with low correlation and large linear span. , 2012, , .		0
20	Binary Niho sequences with four-valued cross correlations. , 2012, , .		3
21	A Class of Binomial Bent Functions Over the Finite Fields of Odd Characteristic. IEEE Transactions on Information Theory, 2012, 58, 6054-6063.	1.5	25
22	A Three-Valued Walsh Transform From Decimations of Helleseth–Gong Sequences. IEEE Transactions on Information Theory, 2012, 58, 1158-1162.	1.5	9
23	On the Dual of Certain Ternary Weakly Regular Bent Functions. IEEE Transactions on Information Theory, 2012, 58, 2237-2243.	1.5	24
24	New Three-Valued Walsh Transforms from Decimations of Helleseth-Gong Sequences. Lecture Notes in Computer Science, 2012, , 327-337.	1.0	2
25	Two nonbinary sequences with six-valued cross correlation. , 2011, , .		13
26	Fast Discrete Fourier Spectra Attacks on Stream Ciphers. IEEE Transactions on Information Theory, 2011, 57, 5555-5565.	1.5	25
27	Crosscorrelation of m-sequences, exponential sums, bent functions and Jacobsthal sums. Cryptography and Communications, 2011, 3, 281-291.	0.9	26
28	Crosscorrelation of m-Sequences, Exponential Sums and Dickson Polynomials. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 2212-2219.	0.2	3
29	New Binomial Bent Functions Over the Finite Fields of Odd Characteristic. IEEE Transactions on Information Theory, 2010, 56, 4646-4652.	1.5	55
30	On generalized bent functions. , 2010, , .		14
31	A Family of m-Sequences With Five-Valued Cross Correlation. IEEE Transactions on Information Theory, 2009, 55, 880-887.	1.5	17
32	Period-Different m-Sequences With at Most Four-Valued Cross Correlation. IEEE Transactions on Information Theory, 2009, 55, 3305-3311.	1.5	18
33	Proofs of Two Conjectures on Ternary Weakly Regular Bent Functions. IEEE Transactions on Information Theory, 2009, 55, 5272-5283.	1.5	50
34	Crosscorrelation of m-sequences with decimation d = $(p^l + 1)/(p^k + 1)$. , 2008, , .		0
35	m-sequences of different lengths with four-valued cross correlation. , 2008, , .		2
36	On Attacks on Filtering Generators Using Linear Subspace Structures. , 2007, , 204-217.		6

#	ARTICLE	IF	CITATIONS
37	A Survey of Recent Attacks on the Filter Generator. , 2007, , 7-17.		5
38	Propagation characteristics of <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x.	0.6	24
39	A New Attack on the Filter Generator. IEEE Transactions on Information Theory, 2007, 53, 1752-1758.	1.5	66
40	A Generic Construction of Cartesian Authentication Codes. IEEE Transactions on Information Theory, 2007, 53, 2229-2235.	1.5	83
41	A New Family of Four-Valued Cross Correlation Between m-Sequences of Different Lengths. IEEE Transactions on Information Theory, 2007, 53, 4308-4313.	1.5	11
42	On Niho type cross-correlation functions of m-sequences. Finite Fields and Their Applications, 2007, 13, 305-317.	0.6	17
43	On the Dual of Monomial Quadratic p-ary Bent Functions. , 2007, , 50-61.		19
44	Three-Valued Crosscorrelation Between m-Sequences of Different Lengths. , 2006, , .		1
45	New pairs of <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x.	0.6	32
46	On Certain Equations over Finite Fields and Cross-Correlations of m-Sequences. , 2004, , 169-176.		3
47	On the Crosscorrelation of m-Sequences and Related Sequences with Ideal Autocorrelation. , 2002, , 34-45.		5
48	Sequences with good correlations and some open problems. Electronic Notes in Discrete Mathematics, 2001, 6, 507-517.	0.4	1
49	A New Family of Ternary Sequences with Ideal Two-level Autocorrelation Function. Designs, Codes, and Cryptography, 2001, 23, 157-166.	1.0	45
50	Correlation of m-Sequences and Related Topics. , 1999, , 49-66.		19
51	New Generalized Cyclotomy and Its Applications. Finite Fields and Their Applications, 1998, 4, 140-166.	0.6	127
52	De Bruijn sequences, irreducible codes and cyclotomy. Discrete Mathematics, 1996, 159, 143-154.	0.4	27
53	Universal Hash Functions from Exponential Sums over Finite Fields and Galois Rings. Lecture Notes in Computer Science, 1996, , 31-44.	1.0	22
54	Generalizations of the Griesmer bound. Lecture Notes in Computer Science, 1994, , 41-52.	1.0	6

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55	A new class of nonbinary codes meeting the Griesmer bound. Discrete Applied Mathematics, 1993, 47, 219-226.	0.5	9
56	On the covering radius of cyclic linear codes and arithmetic codes. Discrete Applied Mathematics, 1985, 11, 157-173.	0.5	59
57	The weight distribution of the coset leaders for some classes of codes with related parity-check matrices. Discrete Mathematics, 1979, 28, 161-171.	0.4	7
58	A note on the cross-correlation function between two binary maximal length linear sequences. Discrete Mathematics, 1978, 23, 301-307.	0.4	28
59	The weight enumerator polynomials of some classes of codes with composite parity-check polynomials. Discrete Mathematics, 1977, 20, 21-31.	0.4	5
60	The weight distribution of irreducible cyclic codes with block lengths $n_1((q^{1-1})N)$. Discrete Mathematics, 1977, 18, 179-211.	0.4	139
61	Some results about the cross-correlation function between two maximal linear sequences. Discrete Mathematics, 1976, 16, 209-232.	0.4	251
62	Bent functions and their connections to combinatorics. , 0, , 91-126.		4