

Tor Helleseth

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Some results about the cross-correlation function between two maximal linear sequences. Discrete Mathematics, 1976, 16, 209-232. | 0.4 | 251 |
| 2 | The weight distribution of irreducible cyclic codes with block lengths $n_1((q_1 \hat{=} 1)N)$. Discrete Mathematics, 1977, 18, 179-211. | 0.4 | 139 |
| 3 | New Generalized Cyclotomy and Its Applications. Finite Fields and Their Applications, 1998, 4, 140-166. | 0.6 | 127 |
| 4 | Linear Codes With Two or Three Weights From Weakly Regular Bent Functions. IEEE Transactions on Information Theory, 2016, 62, 1166-1176. | 1.5 | 115 |
| 5 | Linear codes with two or three weights from quadratic Bent functions. Designs, Codes, and Cryptography, 2016, 81, 283-295. | 1.0 | 104 |
| 6 | A Generic Construction of Cartesian Authentication Codes. IEEE Transactions on Information Theory, 2007, 53, 2229-2235. | 1.5 | 83 |
| 7 | A New Attack on the Filter Generator. IEEE Transactions on Information Theory, 2007, 53, 1752-1758. | 1.5 | 66 |
| 8 | On the covering radius of cyclic linear codes and arithmetic codes. Discrete Applied Mathematics, 1985, 11, 157-173. | 0.5 | 59 |
| 9 | New Binomial Bent Functions Over the Finite Fields of Odd Characteristic. IEEE Transactions on Information Theory, 2010, 56, 4646-4652. | 1.5 | 55 |
| 10 | Proofs of Two Conjectures on Ternary Weakly Regular Bent Functions. IEEE Transactions on Information Theory, 2009, 55, 5272-5283. | 1.5 | 50 |
| 11 | Several classes of permutation trinomials from Niho exponents. Cryptography and Communications, 2017, 9, 693-705. | 0.9 | 48 |
| 12 | Several New Classes of Bent Functions From Dillon Exponents. IEEE Transactions on Information Theory, 2013, 59, 1818-1831. | 1.5 | 47 |
| 13 | A New Family of Ternary Sequences with Ideal Two-level Autocorrelation Function. Designs, Codes, and Cryptography, 2001, 23, 157-166. | 1.0 | 45 |
| 14 | New pairs of  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 |
| 15 | A note on the cross-correlation function between two binary maximal length linear sequences. Discrete Mathematics, 1978, 23, 301-307. | 0.4 | 28 |
| 16 | De Bruijn sequences, irreducible codes and cyclotomy. Discrete Mathematics, 1996, 159, 143-154. | 0.4 | 27 |
| 17 | Crosscorrelation of m-sequences, exponential sums, bent functions and Jacobsthal sums. Cryptography and Communications, 2011, 3, 281-291. | 0.9 | 26 |
| 18 | Fast Discrete Fourier Spectra Attacks on Stream Ciphers. IEEE Transactions on Information Theory, 2011, 57, 5555-5565. | 1.5 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | New Constructions of Quadratic Bent Functions in Polynomial Form. IEEE Transactions on Information Theory, 2014, 60, 5760-5767. | 1.5 | 25 |
| 21 | 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 |
| 22 | Propagation characteristics of $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$ | 0.6 | 24 |
| 23 | On the Dual of Certain Ternary Weakly Regular Bent Functions. IEEE Transactions on Information Theory, 2012, 58, 2237-2243. | 1.5 | 24 |
| 24 | Universal Hash Functions from Exponential Sums over Finite Fields and Galois Rings. Lecture Notes in Computer Science, 1996, , 31-44. | 1.0 | 22 |
| 25 | New generalized cyclotomic binary sequences of period p^2 . Designs, Codes, and Cryptography, 2018, 86, 1483-1497. | 1.0 | 19 |
| 26 | Correlation of m-Sequences and Related Topics. , 1999, , 49-66. | | 19 |
| 27 | On the Dual of Monomial Quadratic p-ary Bent Functions. , 2007, , 50-61. | | 19 |
| 28 | Period-Different m -Sequences With at Most Four-Valued Cross Correlation. IEEE Transactions on Information Theory, 2009, 55, 3305-3311. | 1.5 | 18 |
| 29 | Solomon W. Golombâ€”Mathematician, Engineer, and Pioneer. IEEE Transactions on Information Theory, 2018, 64, 2844-2857. | 1.5 | 18 |
| 30 | On Niho type cross-correlation functions of m-sequences. Finite Fields and Their Applications, 2007, 13, 305-317. | 0.6 | 17 |
| 31 | A Family of m -Sequences With Five-Valued Cross Correlation. IEEE Transactions on Information Theory, 2009, 55, 880-887. | 1.5 | 17 |
| 32 | Differential Spectrum of Kasami Power Permutations Over Odd Characteristic Finite Fields. IEEE Transactions on Information Theory, 2019, 65, 6819-6826. | 1.5 | 15 |
| 33 | On generalized bent functions. , 2010, , . | | 14 |
| 34 | Two nonbinary sequences with six-valued cross correlation. , 2011, , . | | 13 |
| 35 | 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 |
| 36 | The linear complexity of generalized cyclotomic binary sequences of period p^n . Designs, Codes, and Cryptography, 2019, 87, 1183-1197. | 1.0 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Some Results on Cross-Correlation Distribution Between a (p, m) -Sequence and Its Decimated Sequences. IEEE Transactions on Information Theory, 2014, 60, 7368-7381. | 1.5 | 12 |
| 38 | 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 |
| 39 | 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 |
| 40 | Binary Linear Codes With Few Weights From Two-to-One Functions. IEEE Transactions on Information Theory, 2021, 67, 4263-4275. | 1.5 | 10 |
| 41 | A new class of nonbinary codes meeting the Griesmer bound. Discrete Applied Mathematics, 1993, 47, 219-226. | 0.5 | 9 |
| 42 | A Three-Valued Walsh Transform From Decimations of Helleseith's Gong Sequences. IEEE Transactions on Information Theory, 2012, 58, 1158-1162. | 1.5 | 9 |
| 43 | On the Correlation Distribution for a Niho Decimation. IEEE Transactions on Information Theory, 2017, 63, 7206-7218. | 1.5 | 9 |
| 44 | 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 |
| 45 | On Attacks on Filtering Generators Using Linear Subspace Structures. , 2007, , 204-217. | | 6 |
| 46 | Generalizations of the Griesmer bound. Lecture Notes in Computer Science, 1994, , 41-52. | 1.0 | 6 |
| 47 | The weight enumerator polynomials of some classes of codes with composite parity-check polynomials. Discrete Mathematics, 1977, 20, 21-31. | 0.4 | 5 |
| 48 | A Survey of Recent Attacks on the Filter Generator. , 2007, , 7-17. | | 5 |
| 49 | On the Crosscorrelation of m -Sequences and Related Sequences with Ideal Autocorrelation. , 2002, , 34-45. | | 5 |
| 50 | Five-weight codes from three-valued correlation of M -sequences. Advances in Mathematics of Communications, 2023, 17, 799-814. | 0.4 | 4 |
| 51 | Bent functions and their connections to combinatorics. , 0, , 91-126. | | 4 |
| 52 | 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 |
| 53 | Binary Niho sequences with four-valued cross correlations. , 2012, , . | | 3 |
| 54 | On Certain Equations over Finite Fields and Cross-Correlations of m -Sequences. , 2004, , 169-176. | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | m-sequences of different lengths with four-valued cross correlation. , 2008, , . | | 2 |
| 56 | New Three-Valued Walsh Transforms from Decimations of Helleseth-Gong Sequences. Lecture Notes in Computer Science, 2012, , 327-337. | 1.0 | 2 |
| 57 | Sequences with good correlations and some open problems. Electronic Notes in Discrete Mathematics, 2001, 6, 507-517. | 0.4 | 1 |
| 58 | Three-Valued Crosscorrelation Between m-Sequences of Different Lengths. , 2006, , . | | 1 |
| 59 | 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 |
| 60 | Covering Radius of Melas Codes. IEEE Transactions on Information Theory, 2022, 68, 4354-4364. | 1.5 | 1 |
| 61 | Crosscorrelation of m-sequences with decimation $d = (p^l + 1)/(p^k + 1)$. , 2008, , . | | 0 |
| 62 | New nonbinary sequence families with low correlation and large linear span. , 2012, , . | | 0 |