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Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, Turkey 1995 - 1997

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, Turkey 1993 - 1995

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1988 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Character sums, algebraic function fields, curves with many rational points and geometric Goppa codes, Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1997

Postgraduate, On lower bounds of character sums, Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1995

Research Areas

Mathematics, Algebraic Geometry, Field Theory and Polynomials, General Algebraic Systems, Combinatorics, Number Theory, Natural Sciences

Academic and Administrative Experience

Middle East Technical University, Institute of Applied Mathematics, Cryptography, 2007 - Continues

Advising Theses

ÖZBUDAK F., Studies on almost perfect nonlinear functions, Postgraduate, G.BATMAZ(Student), 2022

ÖZBUDAK F., Some studies on CCZ-equivalence of the inverse function, Postgraduate, M.FİDAN(Student), 2021

ÖZBUDAK F., Studies on implementation of some mrd codes, Postgraduate, R.ÖZKERİM(Student), 2021
 ÖZBUDAK F., Some studies on c-differential uniformity of the swapped inverse function, Postgraduate, B.ÜNVER(Student), 2021
 ÖZBUDAK F., Correlation of sequences and quadratic forms, Postgraduate, C.Genişel(Student), 2017
 ÖZBUDAK F., On obtaining regular, weakly regular and non-weakly regular bent functions over finite fields and ring of integers modulo P_m , Doctorate, D.Çelik(Student), 2014
 ÖZBUDAK F., Generalized bent functions with perfect nonlinear functions on arbitrary groups, Postgraduate, E.Sercan(Student), 2012
 ÖZBUDAK F., Drinfeld modular curves with many rational points over finite fields, Doctorate, V.Cam(Student), 2011
 ÖZBUDAK F., On the expected value of the linear complexity of periodic sequences, Postgraduate, Ç.Özakın(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Construction of self dual codes from graphs**
 Fellah N., Guenda K., ÖZBUDAK F., Seneviratne P.
 APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, vol.35, no.4, pp.545-556, 2024 (SCI-Expanded)
- II. **The c-differential uniformity of the perturbed inverse function via a trace function $\text{Tr}(x^2x+1)$**
 KAYTANCI K., ÖZBUDAK F.
 Periodica Mathematica Hungarica, vol.88, no.2, pp.384-395, 2024 (SCI-Expanded)
- III. **On subfield subcodes obtained from restricted evaluation codes**
 Güneri C., ÖZBUDAK F., Sayıcı S.
 Designs, Codes, and Cryptography, vol.92, no.3, pp.667-680, 2024 (SCI-Expanded)
- IV. **Further constructions and characterizations of generalized almost perfect nonlinear functions**
 Sălăgean A., ÖZBUDAK F.
 Cryptography and Communications, vol.15, no.6, pp.1117-1127, 2023 (SCI-Expanded)
- V. **Quasi-Cyclic Perfect Codes in Doob Graphs and Special Partitions of Galois Rings**
 Shi M., Li X., Krotov D. S., ÖZBUDAK F.
 IEEE Transactions on Information Theory, vol.69, no.9, pp.5597-5603, 2023 (SCI-Expanded)
- VI. **Complete characterization of some permutation polynomials of the form $xr(1+axs_1(q-1)+bxs_2(q-1))$ over F_{q^2}**
 ÖZBUDAK F., Temür B. G.
 Cryptography and Communications, vol.15, no.4, pp.775-793, 2023 (SCI-Expanded)
- VII. **Optimal Binary Linear Complementary Pairs of Codes**
 Choi W., GÜNERİ C., Kim J., ÖZBUDAK F.
 CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.15, no.2, pp.469-486, 2023 (SCI-Expanded)
- VIII. **Classification of some quadrinomials over finite fields of odd characteristic**
 Özbudak F., Gulmez Temur B. o. T.
 FINITE FIELDS AND THEIR APPLICATIONS, vol.87, pp.102158, 2023 (SCI-Expanded)
- IX. **EUCLIDEAN POLYNOMIALS FOR CERTAIN ARITHMETIC PROGRESSIONS AND THE MULTIPLICATIVE GROUP OF F_{-p^2}**
 Bertav K. I., ÖZBUDAK F.
 QUAESTIONES MATHEMATICAE, vol.46, no.7, pp.1283-1292, 2023 (SCI-Expanded)
- X. **Boomerang uniformity of power permutations and algebraic curves over F_{2^n}**
 Mesnager S., ÖZBUDAK F.
 Advances in Geometry, vol.23, no.1, pp.107-134, 2023 (SCI-Expanded)
- XI. **On diamond products ensuring irreducibility of the associated composed product**
 İrimağzi C., ÖZBUDAK F.

Communications in Algebra, vol.51, no.7, pp.3134-3142, 2023 (SCI-Expanded)

- XII. **Imprimitive symmetric association schemes of classes 5 and 6 arising from ternary non-weakly regular bent functions**
ÖZBUDAK F., Pelen R. M.
JOURNAL OF ALGEBRAIC COMBINATORICS, vol.56, no.3, pp.635-658, 2022 (SCI-Expanded)
- XIII. **Additive cyclic complementary dual codes over F_4**
Shi M., Liu N., ÖZBUDAK F., Solé P.
Finite Fields and their Applications, vol.83, 2022 (SCI-Expanded)
- XIV. **Classification of permutation polynomials of the form $x^3g(xq-1)$ of F_{q^2} where $g(x) = x^3 + bx + c$ and $b, c \in F_{q^*}$**
ÖZBUDAK F., Gülmez Temür B.
Designs, Codes, and Cryptography, vol.90, no.7, pp.1537-1556, 2022 (SCI-Expanded)
- XV. **Factorization of some polynomials over finite local commutative rings and applications to certain self-dual and LCD codes**
Koese S., ÖZBUDAK F.
CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.14, no.4, pp.933-948, 2022 (SCI-Expanded)
- XVI. **Covering Radius of Melas Codes**
Shi M., Hellesteth T., Özbudak F., Solé P.
IEEE Transactions on Information Theory, vol.68, no.7, pp.4354-4364, 2022 (SCI-Expanded)
- XVII. **Two or Three Weight Linear Codes from Non-Weakly Regular Bent Functions**
Özbudak F., Pelen R. M.
IEEE Transactions on Information Theory, vol.68, no.5, pp.3014-3027, 2022 (SCI-Expanded)
- XVIII. **Complete b -symbol weight distribution of some irreducible cyclic codes**
Zhu H., Shi M., ÖZBUDAK F.
DESIGNS CODES AND CRYPTOGRAPHY, vol.90, no.5, pp.1113-1125, 2022 (SCI-Expanded)
- XIX. **New constructions of entanglement-assisted quantum codes**
Allahmadi A., AlKenani A., Hijazi R., Muthana N., ÖZBUDAK F., Solé P.
Cryptography and Communications, vol.14, no.1, pp.15-37, 2022 (SCI-Expanded)
- XX. **LCD codes from tridiagonal Toeplitz matrices**
Shi M., ÖZBUDAK F., Xu L., Solé P.
Finite Fields and their Applications, vol.75, 2021 (SCI-Expanded)
- XXI. **CORRELATION DISTRIBUTION OF A SEQUENCE FAMILY GENERALIZING SOME SEQUENCES OF TRACHTENBERG**
ÖZBUDAK F., Tekin E.
ADVANCES IN MATHEMATICS OF COMMUNICATIONS, vol.15, no.4, pp.647-662, 2021 (SCI-Expanded)
- XXII. **Geometric Approach to b -Symbol Hamming Weights of Cyclic Codes**
Shi M., Özbudak F., Solé P.
IEEE Transactions on Information Theory, vol.67, no.6, pp.3735-3751, 2021 (SCI-Expanded)
- XXIII. **New generalized almost perfect nonlinear functions**
ÖZBUDAK F., Salagean A.
FINITE FIELDS AND THEIR APPLICATIONS, vol.70, 2021 (SCI-Expanded)
- XXIV. **On the Parity of Power Permutations**
Comak P., ÖZBUDAK F.
IEEE Access, vol.9, pp.106806-106812, 2021 (SCI-Expanded)
- XXV. **Hermitian Rank Metric Codes and Duality**
La Cruz J. D., Evilla J. R., ÖZBUDAK F.
IEEE ACCESS, vol.9, pp.38479-38487, 2021 (SCI-Expanded)
- XXVI. **Secondary constructions of (non)weakly regular plateaued functions over finite fields**
Mesnager S., ÖZBUDAK F., Sinak A.
TURKISH JOURNAL OF MATHEMATICS, vol.45, pp.2295-2306, 2021 (SCI-Expanded)

- XXVII. **Counting Boolean functions with faster points**
Salagean A., ÖZBUDAK F.
DESIGNS CODES AND CRYPTOGRAPHY, vol.88, no.9, pp.1867-1883, 2020 (SCI-Expanded)
- XXVIII. **Subspace packings: constructions and bounds**
Etzion T., Kurz S., Otał K., ÖZBUDAK F.
DESIGNS CODES AND CRYPTOGRAPHY, vol.88, no.9, pp.1781-1810, 2020 (SCI-Expanded)
- XXIX. **Duals of non-weakly regular bent functions are not weakly regular and generalization to plateaued functions**
ÖZBUDAK F., PELEN R. M.
FINITE FIELDS AND THEIR APPLICATIONS, vol.64, 2020 (SCI-Expanded)
- XXX. **Strongly regular graphs arising from non-weakly regular bent functions**
ÖZBUDAK F., PELEN R. M.
CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.11, no.6, pp.1297-1306, 2019 (SCI-Expanded)
- XXXI. **A concatenated construction of linear complementary pair of codes**
GÜNERİ C., ÖZBUDAK F., Sacikara E.
CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.11, no.5, pp.1103-1114, 2019 (SCI-Expanded)
- XXXII. **On q -ary plateaued functions over F_q and their explicit characterizations**
Mesnager S., ÖZBUDAK F., Sinak A., Cohen G.
EUROPEAN JOURNAL OF COMBINATORICS, vol.80, pp.71-81, 2019 (SCI-Expanded)
- XXXIII. **Constructing sequences with high nonlinear complexity using the Weierstrass semigroup of a pair of distinct points of a Hermitian curve**
Geil O., Ozbudak F., Ruano D.
SEMIGROUP FORUM, vol.98, no.3, pp.543-555, 2019 (SCI-Expanded)
- XXXIV. **On affine variety codes from the Klein quartic**
Geil O., ÖZBUDAK F.
CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.11, no.2, pp.237-257, 2019 (SCI-Expanded)
- XXXV. **Linear codes from weakly regular plateaued functions and their secret sharing schemes**
Mesnager S., ÖZBUDAK F., Sinak A.
DESIGNS CODES AND CRYPTOGRAPHY, vol.87, pp.463-480, 2019 (SCI-Expanded)
- XXXVI. **CYLOTOMIC FUNCTION FIELDS OVER FINITE FIELDS WITH CLASS NUMBER THREE**
Bilhan M., Buyruk D., ÖZBUDAK F.
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, vol.56, no.2, pp.559-578, 2019 (SCI-Expanded)
- XXXVII. **SELF-DUALITY OF GENERALIZED TWISTED GABIDULIN CODES**
Otał K., ÖZBUDAK F., Willems W.
ADVANCES IN MATHEMATICS OF COMMUNICATIONS, vol.12, no.4, pp.707-721, 2018 (SCI-Expanded)
- XXXVIII. **On Linear Complementary Pairs of Codes**
CARLET C., Guneri C., ÖZBUDAK F., Ozkaya B., SOLE P.
IEEE TRANSACTIONS ON INFORMATION THEORY, vol.64, no.10, pp.6583-6589, 2018 (SCI-Expanded)
- XXXIX. **New cubic self-dual codes of length 54, 60 and 66**
Comak P., Kim J. L., Ozbudak F.
APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, vol.29, no.4, pp.303-312, 2018 (SCI-Expanded)
- XL. **On the p -ary (cubic) bent and plateaued (vectorial) functions**
MESNAGER S., ÖZBUDAK F., Sinak A.
DESIGNS CODES AND CRYPTOGRAPHY, vol.86, no.8, pp.1865-1892, 2018 (SCI-Expanded)
- XLI. **Additive cyclic codes over finite commutative chain rings**
Martinez-Moro E., Otał K., ÖZBUDAK F.
DISCRETE MATHEMATICS, vol.341, no.7, pp.1873-1884, 2018 (SCI-Expanded)

- XLII. **Generalized nonbinary sequences with perfect autocorrelation, flexible alphabets and new periods**
BOZTAŞ S., ÖZBUDAK F., TEKİN E.
CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.10,
no.3, pp.509-517, 2018 (SCI-Expanded)
- XLIII. **Explicit Full Correlation Distribution of Sequence Families Using Plateaued Functions**
BOZTAŞ S., ÖZBUDAK F., TEKİN E.
IEEE TRANSACTIONS ON INFORMATION THEORY, vol.64, no.4, pp.2858-2875, 2018 (SCI-Expanded)
- XLIV. **Some new non-additive maximum rank distance codes**
Otal K., Ozbudak F.
FINITE FIELDS AND THEIR APPLICATIONS, vol.50, pp.293-303, 2018 (SCI-Expanded)
- XLV. **A new concatenated type construction for LCD codes and isometry codes**
CARLET C., Guneri C., ÖZBUDAK F., SOLÉ P.
DISCRETE MATHEMATICS, vol.341, no.3, pp.830-835, 2018 (SCI-Expanded)
- XLVI. **A SUPER-SET OF PATTERSON-WIEDEMANN FUNCTIONS: UPPER BOUNDS AND POSSIBLE
NONLINEARITIES**
Kavut S., MAİTRA S., ÖZBUDAK F.
SIAM JOURNAL ON DISCRETE MATHEMATICS, vol.32, no.1, pp.106-122, 2018 (SCI-Expanded)
- XLVII. **Cyclic subspace codes via subspace polynomials**
Otal K., ÖZBUDAK F.
DESIGNS CODES AND CRYPTOGRAPHY, vol.85, no.2, pp.191-204, 2017 (SCI-Expanded)
- XLVIII. **Structure and performance of generalized quasi-cyclic codes**
Guneri C., ÖZBUDAK F., Ozkaya B., Sacikara E., SEPASDAR Z., SOLÉ P.
FINITE FIELDS AND THEIR APPLICATIONS, vol.47, pp.183-202, 2017 (SCI-Expanded)
- XLIX. **ON COMPLEMENTARY DUAL ADDITIVE CYCLIC CODES**
GÜNERİ C., ÖZBUDAK F., Ozdemir F.
ADVANCES IN MATHEMATICS OF COMMUNICATIONS, vol.11, no.2, pp.353-357, 2017 (SCI-Expanded)
- L. **Hasse-Weil bound for additive cyclic codes**
Guneri C., ÖZBUDAK F., Ozdemir F.
DESIGNS CODES AND CRYPTOGRAPHY, vol.82, pp.249-263, 2017 (SCI-Expanded)
- LI. **Additive Rank Metric Codes**
Otal K., ÖZBUDAK F.
IEEE TRANSACTIONS ON INFORMATION THEORY, vol.63, no.1, pp.164-168, 2017 (SCI-Expanded)
- LII. **Explicit maximal and minimal curves over finite fields of odd characteristics**
ÖZBUDAK F., Saygi Z.
FINITE FIELDS AND THEIR APPLICATIONS, vol.42, pp.81-92, 2016 (SCI-Expanded)
- LIII. **A minimum distance bound for quasi-nD-cyclic codes**
ÖZBUDAK F., Ozkaya B.
FINITE FIELDS AND THEIR APPLICATIONS, vol.41, pp.193-222, 2016 (SCI-Expanded)
- LIV. **Switchings of semifield multiplications**
Hou X., ÖZBUDAK F., ZHOU Y.
DESIGNS CODES AND CRYPTOGRAPHY, vol.80, no.2, pp.217-239, 2016 (SCI-Expanded)
- LV. **EXPLICIT CONSTRUCTIONS OF SOME NON-GABIDULIN LINEAR MAXIMUM RANK DISTANCE CODES**
Otal K., Ozbudak F.
ADVANCES IN MATHEMATICS OF COMMUNICATIONS, vol.10, no.3, pp.589-600, 2016 (SCI-Expanded)
- LVI. **Further results on rational points of the curve $y(qn) - y = \gamma x^{qh+1} - \alpha$ over F_{qm}**
Cosgun A., ÖZBUDAK F., SAYGI Z.
DESIGNS CODES AND CRYPTOGRAPHY, vol.79, no.3, pp.423-441, 2016 (SCI-Expanded)
- LVII. **FURTHER RESULTS ON FIBRE PRODUCTS OF KUMMER COVERS AND CURVES WITH MANY POINTS
OVER FINITE FIELDS**
ÖZBUDAK F., Temur B. G., YAYLA O.
ADVANCES IN MATHEMATICS OF COMMUNICATIONS, vol.10, no.1, pp.151-162, 2016 (SCI-Expanded)

- LVIII. Classification of function fields with class number three**
 BİLHAN M., Buyruk D., ÖZBUDAK F.
 JOURNAL OF PURE AND APPLIED ALGEBRA, vol.219, no.11, pp.5097-5116, 2015 (SCI-Expanded)
- LIX. A construction of weakly and non-weakly regular bent functions over the ring of integers modulo**
 ÇELİK D., ÖZBUDAK F.
 APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, vol.26, no.6, pp.543-554, 2015 (SCI-Expanded)
- LX. On some bounds on the minimum distance of cyclic codes over finite fields**
 ÖZBUDAK F., TUTDERE S., YAYLA O.
 Designs, Codes, and Cryptography, vol.76, no.2, pp.173-178, 2015 (SCI-Expanded)
- LXI. On the exact number of solutions of certain linearized equations**
 ÖZBUDAK F., SAYGI Z.
 DESIGNS CODES AND CRYPTOGRAPHY, vol.73, no.2, pp.457-468, 2014 (SCI-Expanded)
- LXII. ON THE NUMBER OF QUADRATIC FORMS HAVING CODIMENSION 2 RADICALS IN CHARACTERISTIC 2 GIVING MAXIMAL/MINIMAL CURVES**
 ÖZBUDAK F., SAYGI Z.
 COMMUNICATIONS IN ALGEBRA, vol.42, no.9, pp.3795-3810, 2014 (SCI-Expanded)
- LXIII. Uniqueness of F-q-quadratic perfect nonlinear maps from F-q³ to F-q(2)**
 Oezbudak F., POTT A.
 FINITE FIELDS AND THEIR APPLICATIONS, vol.29, pp.49-88, 2014 (SCI-Expanded)
- LXIV. Hybrid classes of balanced Boolean functions with good cryptographic properties**
 Khan M. A., ÖZBUDAK F.
 INFORMATION SCIENCES, vol.273, pp.319-328, 2014 (SCI-Expanded)
- LXV. On the arithmetic operations over finite fields of characteristic three with low complexity**
 AKLEYLEK S., ÖZBUDAK F., ÖZEL C. S.
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.546-554, 2014 (SCI-Expanded)
- LXVI. Finite number of fibre products of Kummer covers and curves with many points over finite fields**
 ÖZBUDAK F., GÜLMEZ TEMÜR B.
 DESIGNS CODES AND CRYPTOGRAPHY, vol.70, no.3, pp.385-404, 2014 (SCI-Expanded)
- LXVII. Improved probabilistic decoding of interleaved Reed-Solomon codes and folded Hermitian codes**
 ÖZBUDAK F., Yayla O.
 THEORETICAL COMPUTER SCIENCE, vol.520, pp.111-123, 2014 (SCI-Expanded)
- LXVIII. A New Representation of Elements of Binary Fields with Subquadratic Space Complexity Multiplication of Polynomials**
 ÖZBUDAK F., AKLEYLEK S., Cenk M.
 IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES, no.10, pp.2016-2024, 2013 (SCI-Expanded)
- LXIX. On the generalisation of special moduli for faster interleaved montgomery modular multiplication**
 AKLEYLEK S., CENK M., ÖZBUDAK F.
 IET INFORMATION SECURITY, vol.7, no.3, pp.165-171, 2013 (SCI-Expanded)
- LXX. The Concatenated Structure of Quasi-Cyclic Codes and an Improvement of Jensen's Bound**
 Guneri C., ÖZBUDAK F.
 IEEE TRANSACTIONS ON INFORMATION THEORY, vol.59, no.2, pp.979-985, 2013 (SCI-Expanded)
- LXXI. An exhaustive computer search for finding new curves with many points among fibre products of two Kummer covers over F-5 and F-7**
 ÖZBUDAK F., GÜLMEZ TEMÜR B., Yayla O.
 TURKISH JOURNAL OF MATHEMATICS, vol.37, no.6, pp.908-913, 2013 (SCI-Expanded)
- LXXII. Polycyclic codes over Galois rings with applications to repeated-root constacyclic codes**
 Lopez-Permouth S. R., Ozadam H., ÖZBUDAK F., SZABO S.
 FINITE FIELDS AND THEIR APPLICATIONS, vol.19, no.1, pp.16-38, 2013 (SCI-Expanded)
- LXXIII. Planarity of products of two linearized polynomials**

- KYUREGHYAN G., ÖZBUDAK F.
FINITE FIELDS AND THEIR APPLICATIONS, vol.18, no.6, pp.1076-1088, 2012 (SCI-Expanded)
- LXXIV. **Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics): Preface**
ÖZBUDAK F., Rodríguez-Henríquez F.
Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2012 (SCI-Expanded)
- LXXV. **On the Polynomial Multiplication in Chebyshev Form**
Akleyek S., Cenk M., ÖZBUDAK F.
IEEE TRANSACTIONS ON COMPUTERS, vol.61, no.4, pp.584-587, 2012 (SCI-Expanded)
- LXXVI. **Quadratic forms of codimension 2 over finite fields containing $F-4$ and Artin-Schreier type curves**
ÖZBUDAK F., SAYGI E., Saygi Z.
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- LXXVII. **Modified Redundant Representation for Designing Arithmetic Circuits with Small Complexity**
AKLEYEK S., ÖZBUDAK F.
IEEE TRANSACTIONS ON COMPUTERS, vol.61, no.3, pp.427-432, 2012 (SCI-Expanded)
- LXXVIII. **A new class of quaternary LCZ sequence sets**
ÖZBUDAK F., SAYGI E., SAYGI Z.
DESIGNS CODES AND CRYPTOGRAPHY, vol.62, no.2, pp.189-198, 2012 (SCI-Expanded)
- LXXIX. **A BOUND ON THE MINIMUM DISTANCE OF QUASI-CYCLIC CODES**
Gueneri C., Oezbudak F.
SIAM JOURNAL ON DISCRETE MATHEMATICS, vol.26, no.4, pp.1781-1796, 2012 (SCI-Expanded)
- LXXX. **A relation between quasi-cyclic codes and 2-D cyclic codes**
Güneri C., ÖZBUDAK F.
FINITE FIELDS AND THEIR APPLICATIONS, vol.18, no.1, pp.123-132, 2012 (SCI-Expanded)
- LXXXI. **Quadratic forms of codimension 2 over certain finite fields of even characteristic**
ÖZBUDAK F., SAYGI E., Saygi Z.
CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.3, no.4, pp.241-257, 2011 (SCI-Expanded)
- LXXXII. **Efficient multiplications in $F(5)^{5n}$ and $F(7)^{7n}$**
CENK M., ÖZBUDAK F.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.236, no.2, pp.177-183, 2011 (SCI-Expanded)
- LXXXIII. **Multiplication of polynomials modulo $x(n)$**
CENK M., ÖZBUDAK F.
THEORETICAL COMPUTER SCIENCE, vol.412, no.29, pp.3451-3462, 2011 (SCI-Expanded)
- LXXXIV. **APPROXIMATION OF BOUNDS ON MIXED-LEVEL ORTHOGONAL ARRAYS**
SEZER A. D., ÖZBUDAK F.
ADVANCES IN APPLIED PROBABILITY, vol.43, no.2, pp.399-421, 2011 (SCI-Expanded)
- LXXXV. **A class of authentication codes with secrecy**
ÖZBUDAK E. K., ÖZBUDAK F., SAYGI Z.
DESIGNS CODES AND CRYPTOGRAPHY, vol.59, pp.287-318, 2011 (SCI-Expanded)
- LXXXVI. **Probabilities for absolute irreducibility of multivariate polynomials by the polytope method**
Koyuncu F., ÖZBUDAK F.
TURKISH JOURNAL OF MATHEMATICS, vol.35, no.3, pp.367-373, 2011 (SCI-Expanded)
- LXXXVII. **On Feedback Functions of Maximum Length Nonlinear Feedback Shift Registers**
ÇALIK C., Turan M. S., ÖZBUDAK F.
IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES, no.6, pp.1226-1231, 2010 (SCI-Expanded)
- LXXXVIII. **On multiplication in finite fields**
Cenk M., ÖZBUDAK F.
JOURNAL OF COMPLEXITY, vol.26, no.2, pp.172-186, 2010 (SCI-Expanded)

- LXXXIX. **A NOTE ON NEGACYCLIC AND CYCLIC CODES OF LENGTH $p(s)$ OVER A FINITE FIELD OF CHARACTERISTIC p**
 ÖZADAM H., Ozbudak F.
 ADVANCES IN MATHEMATICS OF COMMUNICATIONS, vol.3, no.3, pp.265-271, 2009 (SCI-Expanded)
- XC. **Joint linear complexity of arbitrary multisequences consisting of linear recurring sequences**
 Fu F., Niederreiter H., ÖZBUDAK F.
 FINITE FIELDS AND THEIR APPLICATIONS, vol.15, no.4, pp.475-496, 2009 (SCI-Expanded)
- XCII. **Improved Polynomial Multiplication Formulas over F_2 Using Chinese Remainder Theorem**
 Cenk M., Oezbudak F.
 IEEE TRANSACTIONS ON COMPUTERS, vol.58, no.4, pp.572-576, 2009 (SCI-Expanded)
- XCIII. **Joint linear complexity of multisequences consisting of linear recurring sequences**
 Fu F., Niederreiter H., Ozbudak F.
 CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, vol.1, no.1, pp.3-29, 2009 (SCI-Expanded)
- XCIV. **Linear complexity over F_q and over F_{q^m} for linear recurring sequences**
 MEIDL W., ÖZBUDAK F.
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