

Ordered Covering Arrays and Upper Bounds on Covering Codes in NRT spaces

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1 Introduction

Covering codes deal with the following question: given a metric space, what is the minimum number of balls of fixed radius necessary to cover the entire space? Several applications, such as data transmission, cellular telecommunications, decoding of errors, and football pool problem, have motivated the investigation of covering codes in Hamming spaces. Covering codes also have connections with other branches of mathematics and computer science, such as finite fields, linear algebra, graph theory, combinatorial optimization, mathematical programming, and metaheuristic search. We refer the reader to the book by Cohen et al. [9] for an overview of the topic.

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Covering Codes G. Cohen, I. Honkala, S. Litsyn, A. Lobstein, 1997-04-14 The problems of constructing covering codes and of estimating their parameters are the main concern of this book It provides a unified account of the most recent theory of covering codes and shows how a number of mathematical and engineering issues are related to covering problems Scientists involved in discrete mathematics combinatorics computer science information theory geometry algebra or number theory will find the book of particular significance It is designed both as an introductory textbook for the beginner and as a reference book for the expert mathematician and engineer A number of unsolved problems suitable for research projects are also discussed

Constructing Covering Codes Luca Teodoro Filippini, 2016 [The Covering Excess Method in the Theory of Covering Codes](#) Wolfgang Haas, 2008

Classification Algorithms for Codes and Designs Petteri Kaski, Patric R.J. Östergård, 2006-02-03 A new starting point and a new method are requisite to insure a complete classification of the Steiner triple systems of order 15 This method was furnished and its tedious and difficult execution undertaken by Mr Cole F N Cole L D Cummings and H S White 1917 129 The history of classifying combinatorial objects is as old as the history of the objects themselves In the mid 19th century Kirkman Steiner and others became the fathers of modern combinatorics and their work on various objects including what became later known as Steiner triple systems led to several classification results Almost a century earlier in 1782 Euler 180 published some results on classifying small Latin squares but for the first few steps in this direction one should actually go at least as far back as ancient Greece and the proof that there are exactly five Platonic solids One of the most remarkable achievements in the early pre computer era is the classification of the Steiner triple systems of order 15 quoted above An onerous task that today no sensible person would attempt by hand calculation Because with the exception of occasional parameters for which combinatorial arguments are effective often to prove nonexistence or uniqueness classification in general is about algorithms and computation

Covering Codes Gérard Cohen, 1997 The problems of constructing covering codes and of estimating their parameters are the main concern of this book It provides a unified account of the most recent theory of covering codes and shows how a number of mathematical and engineering issues are related to covering problems Scientists involved in discrete mathematics combinatorics computer science information theory geometry algebra or number theory will find the book of particular significance It is designed both as an introductory textbook for the beginner and as a reference book for the expert mathematician and engineer A number of unsolved problems suitable for research projects are also discussed

Covering Codes Uri Blass, 2003

Covering Codes, Perfect Codes, and Codes from Algebraic Curves Gerardus Joannes Maria Van Wee, 1991

Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Gérard Cohen, Marc Giusti, Teo Mora, 1995 This book constitutes the proceedings of the 11th International Conference on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAECC 11 held in Paris France in July 1995 The volume presents five invited papers and 32 full revised research papers selected from a total of

68 submissions it is focussed on research directed to the exploitation of algebraic techniques and methodologies for the application in coding and computer algebra Among the topics covered are coding cryptology communication factorization of polynomials Gröbner bases computer algebra algebraic algorithms symbolic computation algebraic manipulation

Construction methods for covering codes Patric R. J. Östergård,1993 **Covering Codes** Marinus Struik,1994

Selected Areas in Cryptography Alex Biryukov,Guang Gong,Douglas R. Stinson,2011-03-03 This book constitutes the thoroughly refereed post proceedings of the 17th Annual International Workshop on Selected Areas in Cryptography SAC 2010 held in Waterloo Ontario Canada in August 2010 The 24 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 90 submissions The papers are organized in topical sections on hash functions stream ciphers efficient implementations coding and combinatorics block ciphers side channel attacks and mathematical aspects *Scientific and Technical Aerospace Reports* ,1992-06 **Fast Generation and Covering Radius of**

Reed-Muller Codes Argyrios Alexopoulos,2009 Reed Muller codes are known to be some of the oldest simplest and most elegant error correcting codes Reed Muller codes were invented in 1954 by D E Muller and I S Reed and were an important extension of the Hamming and Golay codes because they gave more flexibility in the size of the codeword and the number of errors that could be correct The covering radius of these codes as well as the fast construction of covering codes is the main subject of this thesis The covering radius problem is important because of the problem of constructing codes having a specified length and dimension Codes with a reasonably small covering radius are highly desired in digital communication environments In addition a new algorithm is presented that allows the use of a compact way to represent Reed Muller codes Using this algorithm a new method for fast less complex and memory efficient generation of 1st and 2nd order Reed Muller codes and their hardware implementation is possible It is also allows the fast construction of a new subcode class of 2nd order Reed Muller codes with good properties Finally by reversing this algorithm we introduce a code compression method and at the same time a fast efficient and promising error correction process The Premier Cypher Telegraphic Code ,1897

Report of the Code Commission to Accompany the Code as Reported to the Twenty-sixth General Assembly of Iowa Iowa. Code Commission,1895 **Acme Commodity and Phrase Code** Acme Code Company,1923 *Western Union Telegraphic Code* International Cable Directory Company,1901 **Covering Codes** René Struik,1994 Maryland Digest Annotated, Covering All Reported and Many Unreported Decisions, from 1 Harris and McHenry to 123 Maryland... Under the American Digest Classification Samuel Want,J. Mercer Garnett (Jr.),Daniel List Warner,1916 The New code and pocket diary ,1900

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