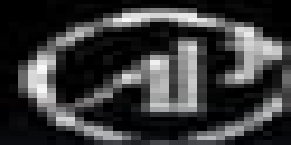


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Cryptographic Boolean Functions and Applications



Cryptographic Boolean Functions And Applications

Tsutomu Sasao, Jon Butler



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Boolean Functions and Their Applications in Cryptography Chuan-Kun Wu, Dengguo Feng, 2016-02-23 This book focuses on the different representations and cryptographic properties of Booleans functions presents constructions of Boolean functions with some good cryptographic properties More specifically Walsh spectrum description of the traditional cryptographic properties of Boolean functions including linear structure propagation criterion nonlinearity and correlation immunity are presented Constructions of symmetric Boolean functions and of Boolean permutations with good cryptographic properties are specifically studied This book is not meant to be comprehensive but with its own focus on some original research of the authors in the past To be self content some basic concepts and properties are introduced This book can serve as a reference for cryptographic algorithm designers particularly the designers of stream ciphers and of block ciphers and for academics with interest in the cryptographic properties of Boolean functions

Cryptographic Boolean Functions and Applications Thomas W. Cusick, Pantelimon Stanica, 2017-03-31 *Cryptographic Boolean Functions and Applications* Second Edition is designed to be a comprehensive reference for the use of Boolean functions in modern cryptography While the vast majority of research on cryptographic Boolean functions has been achieved since the 1970s when cryptography began to be widely used in everyday transactions in particular banking relevant material is scattered over hundreds of journal articles conference proceedings books reports and notes some of them only available online This book follows the previous edition in sifting through this compendium and gathering the most significant information in one concise reference book The work therefore encompasses over 600 citations covering every aspect of the applications of cryptographic Boolean functions Since 2008 the subject has seen a very large number of new results and in response the authors have prepared a new chapter on special functions The new edition brings 100 completely new

references and an expansion of 50 new pages along with heavy revision throughout the text Presents a foundational approach beginning with the basics of the necessary theory then progressing to more complex content Includes major concepts that are presented with complete proofs with an emphasis on how they can be applied Includes an extensive list of references including 100 new to this edition that were chosen to highlight relevant topics Contains a section on special functions and all new numerical examples

BFCA '05 Jean-Francis Michon,Pierre Valarcher,Jean-Baptiste Yunès,2005 Les recherches en cryptographie se sont d velopp es en France ces derni res ann es du fait de la n cessit de d velopper la s curit de tous les changes informatiques Toutes les industries ainsi que les administrations sont concern es par ce d veloppement la s curit des changes informatiques ainsi que l e administration sont des exemples dans lesquels peut intervenir la cryptographie Et les fonctions bool ennes en particulier jouent un r le central dans le design de la plupart des crypto syst mes sym triques et leur s curit L ouvrage en anglais fruit d un colloque international tenu Roeun fait le point sur ces diff rents syst mes

Boolean Functions for Cryptography and Coding Theory Claude Carlet,2021-01-07 Boolean functions are essential to systems for secure and reliable communication This comprehensive survey of Boolean functions for cryptography and coding covers the whole domain and all important results building on the author s influential articles with additional topics and recent results A useful resource for researchers and graduate students the book balances detailed discussions of properties and parameters with examples of various types of cryptographic attacks that motivate the consideration of these parameters It provides all the necessary background on mathematics cryptography and coding and an overview on recent applications such as side channel attacks on smart cards cloud computing through fully homomorphic encryption and local pseudo random generators The result is a complete and accessible text on the state of the art in single and multiple output Boolean functions that illustrates the interaction between mathematics computer science and telecommunications

Analysis and Design of Boolean Functions for Cryptographic Applications William L. Millan,1997

Cryptographic and Information Security Approaches for Images and Videos S. Ramakrishnan,2018-12-07 This book presents essential principles technical information and expert insights on multimedia security technology Illustrating the need for improved content security as the Internet and digital multimedia applications rapidly evolve it presents a wealth of everyday protection application examples in fields including Giving readers an in depth introduction to different aspects of information security mechanisms and methods it also serves as an instructional tool on the fundamental theoretical framework required for the development of advanced techniques

Progress in Applications of Boolean Functions Tsutomu Sasao,Jon Butler,2022-05-31 This book brings together five topics on the application of Boolean functions They are 1 Equivalence classes of Boolean functions The number of n variable functions is large even for values as small as $n = 6$ and there has been much research on classifying functions There are many classifications each with their own distinct merit 2 Boolean functions for cryptography The process of encrypting decrypting plaintext messages often depends on Boolean functions with specific properties For example highly

nonlinear functions are valued because they are less susceptible to linear attacks 3 Boolean differential calculus An operation analogous to taking the derivative of a real valued function offers important insight into the properties of Boolean functions One can determine tests or susceptibility to hazards 4 Reversible logic Most logic functions are irreversible it is impossible to reconstruct the input given the output However Boolean functions that are reversible are necessary for quantum computing and hold significant promise for low power computing 5 Data mining The process of extracting subtle patterns from enormous amounts of data has benefited from the use of a graph based representation of Boolean functions This has use in surveillance fraud detection scientific discovery including bio informatics genetics medicine and education Written by experts these chapters present a tutorial view of new and emerging technologies in Boolean functions Table of Contents Equivalence Classes of Boolean Functions Boolean Functions for Cryptography Boolean Differential Calculus Synthesis of Boolean Functions in Reversible Logic Data Mining Using Binary Decision Diagrams Bent Functions Natalia Tokareva,2015-08-24 Bent Functions Results and Applications to Cryptography offers a unique survey of the objects of discrete mathematics known as Boolean bent functions As these maximal nonlinear Boolean functions and their generalizations have many theoretical and practical applications in combinatorics coding theory and cryptography the text provides a detailed survey of their main results presenting a systematic overview of their generalizations and applications and considering open problems in classification and systematization of bent functions The text is appropriate for novices and advanced researchers discussing proofs of several results including the automorphism group of bent functions the lower bound for the number of bent functions and more Provides a detailed survey of bent functions and their main results presenting a systematic overview of their generalizations and applications Presents a systematic and detailed survey of hundreds of results in the area of highly nonlinear Boolean functions in cryptography Appropriate coverage for students from advanced specialists in cryptography mathematics and creators of ciphers Progress in Cryptology - INDOCRYPT 2022 Takanori Isobe,Santanu Sarkar,2022-12-31 The volume constitutes the proceedings of the 23rd International Conference on Cryptology INDOCRYPT 2022 which was held during December 11 14 2022 The conference took place in Kolkata India The 31 full papers included in this book were carefully reviewed and selected from 74 submissions They were organized in topical sections as follows symmetric key cryptology protocols and implementation cryptanalysis boolean functions quantum cryptography and cryptanalysis post quantum cryptography **Cryptology and Network Security** Sara Foresti,Giuseppe Persiano,2016-10-30 This book constitutes the refereed proceedings of the 15th International Conference on Cryptology and Network Security CANS 2016 held in Milan Italy in November 2016 The 30 full papers presented together with 18 short papers and 8 poster papers were carefully reviewed and selected from 116 submissions The papers are organized in the following topical sections cryptanalysis of symmetric key side channel attacks and implementation lattice based cryptography virtual private network signatures and hash multi party computation symmetric cryptography and authentication system

security functional and homomorphic encryption information theoretic security malware and attacks multi party computation and functional encryption and network security privacy and authentication Encyclopedia of Cryptography and Security Henk C.A. van Tilborg, Sushil Jajodia, 2011-09-06 This comprehensive encyclopedia provides easy access to information on all aspects of cryptography and security The work is intended for students researchers and practitioners who need a quick and authoritative reference to areas like data protection network security operating systems security and more *Applications of Evolutionary Computation* Stephen Smith, João Correia, Christian Cintrano, 2024-03-20 The two volume set LNCS 14634 and 14635 constitutes the refereed proceedings of the 27th European Conference on Applications of Evolutionary Computation EvoApplications 2024 held as part of EvoStar 2024 in Aberystwyth UK April 3 5 2024 and co located with the EvoStar events EvoCOP EvoMUSART and EuroGP The 51 full papers presented in these proceedings were carefully reviewed and selected from 77 submissions The papers have been organized in the following topical sections applications of evolutionary computation analysis of evolutionary computation methods theory empirics and real world applications computational intelligence for sustainability evolutionary computation in edge fog and cloud computing evolutionary computation in image analysis signal processing and pattern recognition evolutionary machine learning machine learning and AI in digital healthcare and personalized medicine problem landscape analysis for efficient optimization softcomputing applied to games and surrogate assisted evolutionary optimisation Cryptology and Network Security Juan A. Garay, Atsuko Miyaji, Akira Otsuka, 2009-11-24 The 8th International Conference on Cryptology and Network Security CANS 2009 was held at the Ishikawa Prefectural Museum of Art in Kanazawa Japan during December 12 14 2009 The conference was jointly co organized by the National Institute of Advanced Industrial Science and Technology AIST Japan and the Japan Advanced Institute of Science and Technology JAIST In addition the event was supported by the Special Interest Group on Computer Security CSEC IPSJ Japan the Japan Technical Group on Information Security ISEC IEICE the Japan Technical Committee on Information and Communication System Security ICSS IEICE and the Society of Information Theory and its Applications SITA Japan and co sponsored by the National Institute of Information and Communications Technology Japan ComWorth Co Ltd Japan Hitachi Ltd Hokuriku Telecommunication Network Co Inc and Internet Initiative Japan Inc The conference received 109 submissions from 24 countries out of which 32 were accepted for publication in these proceedings At least three Program Committee PC members reviewed each submitted paper while submissions co authored by a PC member were submitted to the more stringent evaluation of five PC members In addition to the PC members many external reviewers joined the review process in their particular areas of expertise We were fortunate to have this energetic team of experts and are deeply grateful to all of them for their hard work which included a very active discussion phase almost as long as the initial individual reviewing period The paper submission review and discussion processes were effectively and efficiently made possible by the Web based system iChair **Sequences and Their Applications -- SETA 2012** Tor Helleseeth, Jonathan

Jedwab,2012-06-26 This book constitutes the refereed proceedings of the 7th International Conference on Sequences and Their Applications SETA 2012 held in Waterloo Canada in June 2012 The 28 full papers presented together with 2 invited papers in this volume were carefully reviewed and selected from 48 submissions The papers are grouped in topical sections on perfect sequences finite fields boolean functions Golomb 80th birthday session linear complexity frequency hopping correlation of sequences bounds on sequences cryptography aperiodic correlation and Walsh transform *Cyber Warfare, Security and Space Research* Sandeep Joshi,Amit Kumar Bairwa,Amita Nandal,Milena Radenkovic,Cem Avsar,2022-08-27

This book constitutes selected papers from the first International Conference on Cyber Warfare Security and Space Research SpacSec 2021 held in Jaipur India in December 2021 The 19 full and 6 short papers were thoroughly reviewed and selected from the 98 submissions The papers present research on cyber warfare cyber security and space research area including the understanding of threats and risks to systems the development of a strong innovative culture and incident detection and post incident investigation **Data Protection and Privacy in Healthcare** Ahmed Elngar,Ambika Pawar,Prathamesh

Churi,2021-03-09 The Healthcare industry is one of the largest and rapidly developing industries Over the last few years healthcare management is changing from disease centered to patient centered While on one side the analysis of healthcare data plays an important role in healthcare management but on the other side the privacy of a patient's record must be of equal concern This book uses a research oriented approach and focuses on privacy based healthcare tools and technologies It offers details on privacy laws with real life case studies and examples and addresses privacy issues in newer technologies such as Cloud Big Data and IoT It discusses the e health system and preserving its privacy and the use of wearable technologies for patient monitoring data streaming and sharing and use of data analysis to provide various health services This book is written for research scholars academicians working in healthcare and data privacy domains as well as researchers involved with healthcare law and those working at facilities in security and privacy domains Students and industry professionals as well as medical practitioners might also find this book of interest **Information Security and**

Cryptology Kefei Chen,Dongdai Lin,Moti Yung,2017-03-02 This book constitutes the thoroughly refereed post conference proceedings of the 12th International Conference on Information Security and Cryptology Inscrypt 2016 held in Beijing China in November 2016 The 32 revised full papers presented were carefully reviewed and selected from 93 submissions The papers are organized in topical sections on symmetric ciphers public key cryptosystems signature and authentication homomorphic encryption leakage resilient post quantum cryptography commitment and protocol elliptic curves security and implementation **Cryptography and Coding** Kenneth G. Paterson,Institute of Mathematics and Its

Applications,2003-12-03 This book constitutes the refereed proceedings of the 9th IMA International Conference on Cryptography and Coding held in Cirencester UK in December 2003 The 25 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from 49 submissions The papers are organized in topical sections

on coding and applications applications of coding in cryptography cryptography cryptanalysis network security and protocols

Key Concepts in Discrete Mathematics Udayan Bhattacharya, 2025-02-20 Key Concepts in Discrete Mathematics offers a comprehensive introduction to the fascinating realm of discrete mathematics covering a diverse array of topics essential for students and professionals in computer science mathematics engineering and related fields Through clear explanations illustrative examples and engaging exercises we provide readers with a solid foundation in discrete mathematics and its practical applications Our book covers a wide range of topics from fundamental concepts like sets relations and functions to advanced topics such as graph theory combinatorics and algorithm analysis We present complex concepts in a clear and accessible manner with detailed explanations and step by step examples guiding readers through each topic We emphasize practical applications and real world examples that demonstrate the relevance of discrete mathematics in various fields including computer science cryptography network theory and optimization Abundant exercises and problems ranging from basic to challenging allow readers to practice and reinforce their understanding of key concepts and techniques Additional online resources including solutions to selected exercises interactive quizzes and supplementary materials enhance the learning experience and provide opportunities for further exploration Whether used as a textbook in a classroom setting or as a self study guide Key Concepts in Discrete Mathematics serves as an invaluable resource for students seeking to deepen their understanding and for educators and professionals interested in exploring this essential area of mathematics

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