

# COMPLEXITY IN CRYPTOGRAPHY

- When we encrypt, security should not depend on the message length but say on key size
- Instead of input length  $n$ , take security parameter  $\kappa$
- Usually  $\kappa$  related to key length
  - First, fix  $\kappa$  so that  $T(\kappa)$  of attacks is big and of "honest" algorithms is small
  - Finally, choose corresponding key

# Complexity And Cryptography

**Kenneth G. Paterson, Institute of  
Mathematics and Its Applications**



## **Complexity And Cryptography:**

**Complexity and Cryptography** John Talbot, Dominic Welsh, 2006-01-12 Cryptography plays a crucial role in many aspects of today's world from internet banking and e-commerce to email and web based business processes Understanding the principles on which it is based is an important topic that requires a knowledge of both computational complexity and a range of topics in pure mathematics This book provides that knowledge combining an informal style with rigorous proofs of the key results to give an accessible introduction It comes with plenty of examples and exercises many with hints and solutions and is based on a highly successful course developed and taught over many years to undergraduate and graduate students in mathematics and computer science

**Complexity and Cryptography** John Talbot, D. J. A. Welsh, 2006-01-12 Introductory textbook on Cryptography

*Complexity Theory and Cryptology* Jörg Rothe, 2005-07-22 Modern cryptology increasingly employs mathematically rigorous concepts and methods from complexity theory Conversely current research topics in complexity theory are often motivated by questions and problems from cryptology This book takes account of this situation and therefore its subject is what may be dubbed cryptocomplexity a kind of symbiosis of these two areas This book is written for undergraduate and graduate students of computer science mathematics and engineering and can be used for courses on complexity theory and cryptology preferably by stressing their interrelation Moreover it may serve as a valuable source for researchers teachers and practitioners working in these fields Starting from scratch it works its way to the frontiers of current research in these fields and provides a detailed overview of their history and their current research topics and challenges

*Studies in Complexity and Cryptography* Oded Goldreich, 2011-08-03 Paying witness to the author's thirty year career in science these high quality papers some co written with colleagues reflect his professional range covering material from average case complexity to derandomization and probabilistically checkable proofs

**Complexity and Cryptography** John Talbot, Dominic Welsh, 2006-01-12 Cryptography plays a crucial role in many aspects of today's world from internet banking and e-commerce to email and web based business processes Understanding the principles on which it is based is an important topic that requires a knowledge of both computational complexity and a range of topics in pure mathematics This book provides that knowledge combining an informal style with strong proofs of the key results to provide an accessible introduction It includes many examples and exercises and is based on a highly successful course developed and taught over many years

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researchers teachers and practitioners working in these fields Starting from scratch it works its way to the frontiers of current research in these fields and provides a detailed overview of their history and their current research topics and challenges

*Non-commutative Cryptography and Complexity of Group-theoretic Problems* Alexei G. Myasnikov, Vladimir Shpilrain, Alexander Ushakov, 2011 This book is about relations between three different areas of mathematics and theoretical computer science combinatorial group theory cryptography and complexity theory It explores how non commutative infinite groups which are typically studied in combinatorial group theory can be used in public key cryptography It also shows that there is remarkable feedback from cryptography to combinatorial group theory because some of the problems motivated by cryptography appear to be new to group theory and they open many interesting research avenues within group theory In particular a lot of emphasis in the book is put on studying search problems as compared to decision problems traditionally studied in combinatorial group theory Then complexity theory notably generic case complexity of algorithms is employed for cryptanalysis of various cryptographic protocols based on infinite groups and the ideas and machinery from the theory of generic case complexity are used to study asymptotically dominant properties of some infinite groups that have been applied in public key cryptography so far This book also describes new interesting developments in the algorithmic theory of solvable groups and another spectacular new development related to complexity of group theoretic problems which is based on the ideas of compressed words and straight line programs coming from computer science

*Complexity of Lattice Problems* Daniele Micciancio, Shafi Goldwasser, 2002-03-31 Lattices are geometric objects that can be pictorially described as the set of intersection points of an infinite regular  $n$  dimensional grid Despite their apparent simplicity lattices hide a rich combinatorial structure which has attracted the attention of great mathematicians over the last two centuries Not surprisingly lattices have found numerous applications in mathematics and computer science ranging from number theory and Diophantine approximation to combinatorial optimization and cryptography The study of lattices specifically from a computational point of view was marked by two major breakthroughs the development of the LLL lattice reduction algorithm by Lenstra Lenstra and Lovasz in the early 80 s and Ajtai s discovery of a connection between the worst case and average case hardness of certain lattice problems in the late 90 s The LLL algorithm despite the relatively poor quality of the solution it gives in the worst case allowed to devise polynomial time solutions to many classical problems in computer science These include solving integer programs in a fixed number of variables factoring polynomials over the rationals breaking knapsack based cryptosystems and finding solutions to many other Diophantine and cryptanalysis problems

*Kolmogorov Complexity and Cryptography* Danilo Francati, 2021

**Cryptographically Relevant Contributions to Combinational Complexity Theory** Alain P. L. Hiltgen, 1994 The provability of certain cryptographic assumptions and more generally the existence of provable practical security is investigated It is argued why combinatorial complexity is the complexity measure that is most suited if the security of practical cryptographic applications is to be proved

iii **Number Theoretic Methods**

**in Cryptography** Igor Shparlinski, 2012-12-06 The book introduces new techniques which imply rigorous lower bounds on the complexity of some number theoretic and cryptographic problems These methods and techniques are based on bounds of character sums and numbers of solutions of some polynomial equations over finite fields and residue rings It also contains a number of open problems and proposals for further research We obtain several lower bounds exponential in terms of  $\log p$  on the degrees and orders of polynomials algebraic functions Boolean functions linear recurring sequences coinciding with values of the discrete logarithm modulo a prime  $p$  at sufficiently many points the number of points can be as small as  $p^{1/2}$  He These functions are considered over the residue ring modulo  $p$  and over the residue ring modulo an arbitrary divisor  $d$  of  $p-1$  The case of  $d=2$  is of special interest since it corresponds to the representation of the right most bit of the discrete logarithm and defines whether the argument is a quadratic residue We also obtain non trivial upper bounds on the degree sensitivity and Fourier coefficients of Boolean functions on bits of  $x$  deciding whether  $x$  is a quadratic residue These results are used to obtain lower bounds on the parallel arithmetic and Boolean complexity of computing the discrete logarithm For example we prove that any unbounded fan in Boolean circuit of sublogarithmic depth computing the discrete logarithm modulo  $p$  must be of superpolynomial size

**Some Complexity Theory for Cryptography** Anthony M. Gaglione, NAVAL RESEARCH LAB WASHINGTON DC., 1987 This report concerns some of the elementary concepts in complexity theory In particular a mathematical model is developed for a finite state machine and the Turing machine This model has applications to public key cryptosystems in determining which problems are P NP or NPC The report was written to be as accessible to the nonspecialist as possible

**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

*Cryptographic Applications of Analytic Number Theory* Igor Shparlinski, 2013-03-07 The book introduces new techniques that imply rigorous lower bounds on the complexity of some number theoretic and cryptographic problems It also establishes certain attractive pseudorandom properties of various cryptographic primitives These methods and techniques are based on bounds of character sums and numbers of solutions of some polynomial equations over finite fields and residue rings Other number theoretic techniques such as sieve methods and lattice reduction algorithms are used as well The book also contains a number of open problems and proposals for further research The emphasis is on obtaining unconditional rigorously proved statements The bright side of this approach is that the results do not depend on any assumptions or conjectures On the downside the results are much weaker than those which are widely believed to be true We obtain several lower bounds exponential in terms of  $\log p$  on the degrees and orders of polynomials algebraic functions Boolean functions linear

recurrence sequences coinciding with values of the discrete logarithm modulo a prime  $p$  at sufficiently many points the number of points can be as small as  $p^{1/2}$ . These functions are considered over the residue ring modulo  $p$  and over the residue ring modulo an arbitrary divisor  $d$  of  $p-1$ . The case of  $d=2$  is of special interest since it corresponds to the representation of the rightmost bit of the discrete logarithm and defines whether the argument is a quadratic residue.

*Public Key Cryptography and Complexity Theory* J. Grollmann, 1982 *Progress in Cryptology -- INDOCRYPT 2003* Thomas Johansson, 2003-11-25 This book constitutes the refereed proceedings of the 4th International Conference on Cryptology in India INDOCRYPT 2003 held in New Delhi India in December 2003. The 29 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 101 submissions. The papers are organized in topical sections on stream ciphers, block ciphers, Boolean functions, secret sharing, bilinear pairings, public key cryptography, signature schemes, protocols, elliptic curve cryptography, and algebraic geometry, implementation and digital watermarking, and authentication.

**The Complexity of Cryptography in Literature** Sonja Dežman, 2016 Cryptography first appeared approximately four thousand years ago; it has developed and improved throughout history. Cryptography has an important role in the modern world. Cryptography has been a part of our lives for nearly four thousand years; nevertheless, the first book on cryptography did not appear until 1499 when John Trithem published a collection of codes used in some European courts. Today cryptography affects us in many seen and unseen forms and shapes. Therefore, I am not surprised to see that it is commonplace in fiction. The purpose of this thesis is not to study the light summer reading that has lately filled the bookshelves but to systematically research the complexity of cryptography in different literary genres. In *The Complexity of Cryptography in Literature*, I analyze cryptography in English literature throughout the past two centuries. My thesis is, for many reasons, written in English: the study of English and American literature, an English-speaking mentor, and researching literature written in English. Using analysis and synthesis, I study two secondary theoretical sources: *Codes and Ciphers: A History of Cryptography* written by Alexander D. Agapeyeff and *Codes, Ciphers, and Secret Writing* written by Martin Gardner. At the same time, I introduce the appropriate terminology which is necessary for further understanding. The thesis summarizes and presents the history of cryptography. The latter is researched using the method of analysis and synthesis in *The Code Book* by Simon Singh and *The Code Breakers* by David Kahn. Using the basic methods and history of cryptography, I will show that many methods of cryptography are described in literature; these are closely related to cryptography's historical development. Furthermore, I propose that these methods are used in a wide spectrum of literary genres. At the same time, I will show that mostly simple or simplified methods of cryptography are used in literature; otherwise, they would not be accessible to the average reader. The thesis analyzes the complexity of cryptography in six different works of literature with reference to standard mathematical models of cryptography. I analyze the above-mentioned works of literature and, using classification and mathematical methods, I process and present the appearance of cryptography in individual works, the methods, and their

correctness then using historical and comparative methods I research the relationship between cryptographic methods used in literature and actual historical use of cryptography Further on I use various methods the mathematical method the method of analysis and synthesis the method of interpretation and the descriptive method to present the complexity of cryptographic methods in literature

**Computational Complexity** Oded Goldreich,2008-04-28 Complexity theory is a central field of the theoretical foundations of computer science It is concerned with the general study of the intrinsic complexity of computational tasks that is it addresses the question of what can be achieved within limited time and or with other limited natural computational resources This book offers a conceptual perspective on complexity theory It is intended to serve as an introduction for advanced undergraduate and graduate students either as a textbook or for self study The book will also be useful to experts since it provides expositions of the various sub areas of complexity theory such as hardness amplification pseudorandomness and probabilistic proof systems In each case the author starts by posing the intuitive questions that are addressed by the sub area and then discusses the choices made in the actual formulation of these questions the approaches that lead to the answers and the ideas that are embedded in these answers

**Advances in Cryptology - EUROCRYPT 2022** Orr Dunkelman,Stefan Dziembowski,2022-05-28 The 3 volume set LNCS 13275 13276 and 13277 constitutes the refereed proceedings of the 41st Annual International Conference on the Theory and Applications of Cryptographic Techniques Eurocrypt 2022 which was held in Trondheim Norway during 30 May 3 June 2022 The 85 full papers included in these proceedings were accepted from a total of 372 submissions They were organized in topical sections as follows Part I Best Paper Award Secure Multiparty Computation Homomorphic Encryption Obfuscation Part II Cryptographic Protocols Cryptographic Primitives Real World Systems Part III Symmetric Key Cryptanalysis Side Channel Attacks and Masking Post Quantum Cryptography Information Theoretic Security

Cryptography in Constant Parallel Time Benny Applebaum,2013-12-19 Locally computable NC0 functions are simple functions for which every bit of the output can be computed by reading a small number of bits of their input The study of locally computable cryptography attempts to construct cryptographic functions that achieve this strong notion of simplicity and simultaneously provide a high level of security Such constructions are highly parallelizable and they can be realized by Boolean circuits of constant depth This book establishes for the first time the possibility of local implementations for many basic cryptographic primitives such as one way functions pseudorandom generators encryption schemes and digital signatures It also extends these results to other stronger notions of locality and addresses a wide variety of fundamental questions about local cryptography The author s related thesis was honorably mentioned runner up for the ACM Dissertation Award in 2007 and this book includes some expanded sections and proofs and notes on recent developments The book assumes only a minimal background in computational complexity and cryptography and is therefore suitable for graduate students or researchers in related areas who are interested in parallel cryptography It also introduces general techniques and tools which are likely to interest experts in the

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