

# Coupon Collector 1

David Asher Levin,Yuval Peres,Elizabeth Lee Wilmer

**Computing and Combinatorics** Hung Q. Ngo, 2009-07-11 The papers in this volume were selected for presentation at the 15th Annual International Computing and Combinatorics Conference (COCOON 2009), held during July 13-15, 2009 in Niagara Falls, New York, USA. Previous meetings of this conference were held in Xian (1995), Hong Kong (1996), Shanghai (1997), Taipei (1998), Tokyo (1999), Sydney (2000), Guilin (2001), Singapore (2002), Big Sky (2003), Jeju Island (2004), Kunming (2005), Taipei (2006), Alberta (2007), and Dalian (2008). In response to the Call for Papers, 125 extended abstracts (not counting withdrawn papers) were submitted from 28 countries and regions, of which 51 were accepted. Authors of the submitted papers were from Cyprus (1), The Netherlands (1), Bulgaria (1), Israel (1), Vietnam (2), Finland (1), Puerto Rico (2), Australia (4), Norway (4), Portugal (1), Spain (2), France (16), Republic of Korea (3), Singapore (2), Italy (6), Iran (4), Greece (7), Poland (4), Switzerland (8), Hong Kong (10), UK (12), India (7), Taiwan (18), Canada (23), China (19), Japan (39), Germany (44), and the USA (77). The submitted papers were evaluated by an international Technical Program Committee (TPC) consisting of Srinivas Aluru (Iowa State University, USA), Lars Arge (University of Aarhus, Denmark), Vikraman Arvind (Institute of Mathematical Sciences, India), James Aspnes (Yale University, USA), Mikhail Atallah (Purdue University, USA), Gill Barequet (Technion - Israel Institute of Technology, Israel), Michael Brudno (University of Toronto, Canada), Jianer Chen (Texas A & M, USA), Bhaskar DasGupta (University of Illinois at Chicago, USA), Anupam Gupta (Carnegie Mellon University, USA), Lane A.

**A Waiting Time Distribution Arising from the Coupon Collector's Problem** STANFORD UNIV CALIF DEPT OF STATISTICS., H. Rubin, James V. Zidek, 1965 A certain waiting time distribution is considered which arises in the context of the Coupon Collector's Problem. In general, the term 'Coupon Collector's Problem' refers to the problem which confronts an individual who is attempting to collect a subset of some set of distinct items, by sampling with replacement, one item from this set on each of a sequence of independent trials, until this subset is obtained. The waiting time in question, denoted by  $S(r, N)$  ( $N = 1, 2, \dots$ ;  $r = 1, 2, \dots, N$ ), is the number of trials needed to obtain for the first time,  $r$  distinct elements from among  $N$  distinct elements, if each of the sequence of independent trials consists of sampling with replacement and equal probabilities, one element from among the  $N$ . The exact distribution of  $S(r, N)$  is obtained. Using this result an asymptotic approximation to this distribution is derived for the case  $r = N$ . Calculations illustrating the effectiveness of this approximation in the case  $N = 1000$ , are given. (Author).

**Probability and Computing** Michael Mitzenmacher, Eli Upfal, 2005-01-31 Randomization and probabilistic techniques play an important role in modern computer science, with applications ranging from combinatorial optimization and machine learning to communication networks and secure protocols. This 2005 textbook is designed to accompany a one- or two-semester course for advanced undergraduates or beginning graduate students in computer science and applied mathematics. It gives an excellent introduction to the probabilistic techniques and paradigms used in the development of probabilistic algorithms and analyses. It assumes only an elementary background in discrete mathematics and gives a rigorous yet accessible

treatment of the material, with numerous examples and applications. The first half of the book covers core material, including random sampling, expectations, Markov's inequality, Chebyshev's inequality, Chernoff bounds, the probabilistic method and Markov chains. The second half covers more advanced topics such as continuous probability, applications of limited independence, entropy, Markov chain Monte Carlo methods and balanced allocations. With its comprehensive selection of topics, along with many examples and exercises, this book is an indispensable teaching tool.

**Randomized Algorithms** Rajeev Motwani, Prabhakar Raghavan, 1995-08-25 This book presents basic tools from probability theory used in algorithmic applications, with concrete examples.

*Theory of Randomized Search Heuristics* Anne Auger, Benjamin Doerr, 2011 This volume covers both classical results and the most recent theoretical developments in the field of randomized search heuristics such as runtime analysis, drift analysis and convergence.

**Theory of Evolutionary Computation** Benjamin Doerr, Frank Neumann, 2019-11-20 This edited book reports on recent developments in the theory of evolutionary computation, or more generally the domain of randomized search heuristics. It starts with two chapters on mathematical methods that are often used in the analysis of randomized search heuristics, followed by three chapters on how to measure the complexity of a search heuristic: black-box complexity, a counterpart of classical complexity theory in black-box optimization; parameterized complexity, aimed at a more fine-grained view of the difficulty of problems; and the fixed-budget perspective, which answers the question of how good a solution will be after investing a certain computational budget. The book then describes theoretical results on three important questions in evolutionary computation: how to profit from changing the parameters during the run of an algorithm; how evolutionary algorithms cope with dynamically changing or stochastic environments; and how population diversity influences performance. Finally, the book looks at three algorithm classes that have only recently become the focus of theoretical work: estimation-of-distribution algorithms; artificial immune systems; and genetic programming. Throughout the book the contributing authors try to develop an understanding for how these methods work, and why they are so successful in many applications. The book will be useful for students and researchers in theoretical computer science and evolutionary computing.

**Cyber Security, Cryptology, and Machine Learning** Shlomi Dolev, Jonathan Katz, Amnon Meisels, 2022-06-23 This book constitutes the refereed proceedings of the 6th International Symposium on Cyber Security Cryptography and Machine Learning, CSCML 2022, held in Be'er Sheva, Israel, in June - July 2022. The 24 full and 11 short papers presented together with a keynote paper in this volume were carefully reviewed and selected from 53 submissions. They deal with the theory, design, analysis, implementation, or application of cyber security, cryptography and machine learning systems and networks, and conceptually innovative topics in these research areas.

**Abstract State Machines, Alloy, B and Z** Marc Frappier, Uwe Glässer, Sarfraz Khurshid, Régine Laleau, Steve Reeves, 2010-02-20 This book constitutes the proceedings of the Second International Conference on Abstract State Machines, B and Z, which took place in Orford, QC, Canada, in February 2010. The 26 full papers presented were carefully reviewed and selected from 60 submissions. The book also contains two invited talks and abstracts of 18

short papers which address work in progress, industrial experience reports and tool descriptions. The papers cover recent advances in four equally rigorous methods for software and hardware development: abstract state machines (ASM), Alloy, B and Z. They share a common conceptual framework, centered around the notions of state and operation, and promote mathematical precision in the modeling, verification and construction of highly dependable systems.

Theorem Proving in Higher Order Logics Klaus Schneider, 2007-08-28 This book contains the refereed proceedings of the 20th International Conference on Theorem Proving in Higher Order Logics, TPHOLs 2007, held in Kaiserslautern, Germany, September 2007. Among the topics of this volume are formal semantics of specification, modeling, and programming languages, specification and verification of hardware and software, formalization of mathematical theories, advances in theorem prover technology, as well as industrial application of theorem provers.

*Markov Chains and Mixing Times* David Asher Levin, Yuval Peres, Elizabeth Lee Wilmer, This book is an introduction to the modern approach to the theory of Markov chains. The main goal of this approach is to determine the rate of convergence of a Markov chain to the stationary distribution as a function of the size and geometry of the state space. The authors develop the key tools for estimating convergence times, including coupling, strong stationary times, and spectral methods. Whenever possible, probabilistic methods are emphasized. The book includes many examples and provides brief introductions to some central models of statistical mechanics. Also provided are accounts of random walks on networks, including hitting and cover times, and analyses of several methods of shuffling cards. As a prerequisite, the authors assume a modest understanding of probability theory and linear algebra at an undergraduate level. Markov Chains and Mixing Times is meant to bring the excitement of this active area of research to a wide audience.

**Analytic Combinatorics** Philippe Flajolet, Robert Sedgewick, 2009-01-15 Analytic combinatorics aims to enable precise quantitative predictions of the properties of large combinatorial structures. The theory has emerged over recent decades as essential both for the analysis of algorithms and for the study of scientific models in many disciplines, including probability theory, statistical physics, computational biology, and information theory. With a careful combination of symbolic enumeration methods and complex analysis, drawing heavily on generating functions, results of sweeping generality emerge that can be applied in particular to fundamental structures such as permutations, sequences, strings, walks, paths, trees, graphs and maps. This account is the definitive treatment of the topic. The authors give full coverage of the underlying mathematics and a thorough treatment of both classical and modern applications of the theory. The text is complemented with exercises, examples, appendices and notes to aid understanding. The book can be used for an advanced undergraduate or a graduate course, or for self-study.

Security of Block Ciphers Kazuo Sakiyama, Yu Sasaki, Yang Li, 2016-04-25 A comprehensive evaluation of information security analysis spanning the intersection of cryptanalysis and side-channel analysis Written by authors known within the academic cryptography community, this book presents the latest developments in current research Unique in its combination of both algorithmic-level design and hardware-level implementation; this all-round

approach - algorithm to implementation – covers security from start to completion Deals with AES (Advanced Encryption standard), one of the most used symmetric-key ciphers, which helps the reader to learn the fundamental theory of cryptanalysis and practical applications of side-channel analysis

**Network Coding Applications** Christina Fragouli, Emina Soljanin, 2008-01-08 Network Coding Applications looks at how ideas from network coding can have an impact on a number of new applications. It explains what network coding is, explores what its benefits are, and how much it costs to design and operate networks implementing network coding

**Algorithms for Sensor Systems** Antonio Fernández Anta, Tomasz Jurdzinski, Miguel A. Mosteiro, Yanyong Zhang, 2017-12-30 This book constitutes revised selected papers from the 13th International Symposium on Algorithms and Experiments for Wireless Sensor Networks, ALGOSENSORS 2017, held in Vienna, in September 2017. The 17 full papers presented in this volume were carefully reviewed and selected from 30 submissions. ALGOSENSORS is an international symposium dedicated to the algorithmic aspects of wireless networks. Originally focused on sensor networks, it now covers algorithmic issues arising in wireless networks of all types of computational entities, static or mobile, including sensor networks, sensor-actuator networks, autonomous robots. The focus is on the design and analysis of algorithms, models of computation, and experimental analysis.

Analyzing Evolutionary Algorithms Thomas Jansen, 2013-01-24 Evolutionary algorithms is a class of randomized heuristics inspired by natural evolution. They are applied in many different contexts, in particular in optimization, and analysis of such algorithms has seen tremendous advances in recent years. In this book the author provides an introduction to the methods used to analyze evolutionary algorithms and other randomized search heuristics. He starts with an algorithmic and modular perspective and gives guidelines for the design of evolutionary algorithms. He then places the approach in the broader research context with a chapter on theoretical perspectives. By adopting a complexity-theoretical perspective, he derives general limitations for black-box optimization, yielding lower bounds on the performance of evolutionary algorithms, and then develops general methods for deriving upper and lower bounds step by step. This main part is followed by a chapter covering practical applications of these methods. The notational and mathematical basics are covered in an appendix, the results presented are derived in detail, and each chapter ends with detailed comments and pointers to further reading. So the book is a useful reference for both graduate students and researchers engaged with the theoretical analysis of such algorithms.

Formal Power Series and Algebraic Combinatorics Daniel Krob, Alexander A. Mikhalev, Alexander V. Mikhalev, 2013-03-09 This book contains the extended abstracts presented at the 12th International Conference on Power Series and Algebraic Combinatorics (FPSAC '00) that took place at Moscow State University, June 26-30, 2000. These proceedings cover the most recent trends in algebraic and bijective combinatorics, including classical combinatorics, combinatorial computer algebra, combinatorial identities, combinatorics of classical groups, Lie algebra and quantum groups, enumeration, symmetric functions, young tableaux etc...

**Bioinspired Models of Network, Information, and Computing Systems** Yezekael Hayel, Emma Hart, Rachid El-Azouzi, Iacopo Carrera, Eitan Altman, 2010-09-21 This

volume of LNICST is a collection of the papers of the 4th International Conference on Bio-Inspired Models of Network, Information, and Computing Systems (Bionetics). The event took place in the medieval city of Avignon, known also as the City of the Popes, during December 9 to 11, 2009. Bionetics main objective is to bring bio-inspired paradigms into computer engineering and networking, and to enhance the fruitful interactions between these fields and biology. The program of the conference indeed includes applications of various paradigms that have their origin in biology: population dynamics, branching processes, and many optimization. The proceedings include 19 papers covering a broad range of important issues in areas related to bio-inspired technologies. They correspond to presentations at 6 technical sessions. Four papers correspond to an invited session on the Epidemic-type forwarding in DTNs (sparse mobile ad-hoc wireless networks) organized by Dr Francesco De Pellegrini, (Italy, CREATE-NET). The following 9 papers (selected out of 15 submissions) correspond to contributions to regular sessions on Bio-inspired security, Bio-Inspired Networking, Bioinspired algorithms and software systems. The remaining 6 papers (selected out of a total of 9 submissions) are dedicated to work in progress. For each paper, we have provided at least two independent reviews, most of which were offered by members of the TPC.

**Online Computation and Competitive Analysis** Allan Borodin, Ran El-Yaniv, 2005-02-17 Contains theoretical foundations, applications, and examples of competitive analysis for online algorithms.

**Object-Oriented Computer Simulation of Discrete-Event Systems** Jerzy Tyszer, 2012-12-06 Object-Oriented Computer Simulation of Discrete-Event Systems offers a comprehensive presentation of a wide repertoire of computer simulation techniques available to the modelers of dynamic systems. Unlike other books on simulation, this book includes a complete and balanced description of all essential issues relevant to computer simulation of discrete event systems, and it teaches simulation users how to design, program and exploit their own computer simulation models. In addition, it uses the object-oriented methodology throughout the book as its main programming platform. The reader is expected to have some background in the theory of probability and statistics and only a little programming experience in C++, as the book is not tied down to any particular simulation language. The book also provides 50 complete simulation problems to assist with writing such simulation programs. Object-Oriented Computer Simulation of Discrete-Event Systems demonstrates the basic and generic concepts used in computer simulation of discrete-event systems in a comprehensive, uniform and self-contained manner.

**Mathematical Adventures for Students and Amateurs** David F. Hayes, Tatiana Shubin, 2020-08-03

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### Coupon Collector 1 Introduction

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