Renato M. Capocelli

Editor

Sequences

Combinatorics, Compression, Security, and Transmission

Sequences Combinatorics Compression Security And Transmission

Robert Trappl

Sequences Combinatorics Compression Security And Transmission:

   Sequences Renato M. Capocelli,2012-12-06 This volume contains all of the papers presented at the Advanced In ternational Workshop on Sequences Combinatorics Compression Se curity and Transmission held Monday June 6 through Saturday June 11 1988 at the Palazzo Serra di Cassano in Naples and at the Hotel Covo dei Saraceni in Positano Italy The event was organized by the Departimento di Informatica ed Ap plicazioni of the University of Salerno in cooperation with the Istituto Italiano per gli Studi Filosofici of Naples and the National Research Council of Italy C N R I wish to express my warmest thanks to the members of the Program Committee Professor B Bose Professor S Even Professor Z Galil Professor A Lempel Professor A Restivo and to my collaborators Professor F De Santis and Professor U Vaccaro for their effective ceaseless help both during the organization of the workshop and dur ing the preparation ofthis volume Finally I would like to express my sincere gratitude to all the participants in the Workshop   Sequences Renato M Capocelli,1989-12-26

   Coding, Cryptography and Combinatorics Keqin Feng,Harald Niederreiter,Chaoping Xing,2012-12-06 It has long been recognized that there are fascinating connections between cod ing theory cryptology and combinatorics Therefore it seemed desirable to us to organize a conference that brings together experts from these three areas for a fruitful exchange of ideas We decided on a venue in the Huang Shan Yellow Mountain region one of the most scenic areas of China so as to provide the additional inducement of an attractive location The conference was planned for June 2003 with the official title Workshop on Coding Cryptography and Combi natorics CCC 2003 Those who are familiar with events in East Asia in the first half of 2003 can guess what happened in the end namely the conference had to be cancelled in the interest of the health of the participants The SARS epidemic posed too serious a threat At the time of the cancellation the organization of the conference was at an advanced stage all invited speakers had been selected and all abstracts of contributed talks had been screened by the program committee Thus it was de cided to call on all invited speakers and presenters of accepted contributed talks to submit their manuscripts for publication in the present volume Altogether 39 submissions were received and subjected to another round of refereeing After care ful scrutiny 28 papers were accepted for publication   **A Bibliography on Computational Molecular Biology and Genetics** Sarah Barron,Matthew Witter,Gongxian Liu,1991 Provides a definitive bibliographic review of the literature related to DNA mapping and sequence analysis with a focus on computer and mathematical aspects of molecular biology and genetics Over 2200 entries arranged by author s name   **Cybernetics And Systems '94 - Proceedings Of The 12th European Meeting On Cybernetics And Systems Research (In 2 Volumes)** Robert Trappl,1994-03-15 The papers in this volume reflect the most recent research findings in cybernetics and systems research They were selected from 298 draft final papers which were submitted to the conference by authors from more than 30 different countries from five continents   **Algorithms on Strings** Maxime Crochemore,Christophe Hancart,Thierry Lecroq,2007-04-09 The book is intended for lectures on string processes and pattern matching in Master s courses of

computer science and software engineering curricula The details of algorithms are given with correctness proofs and complexity analysis which make them ready to implement Algorithms are described in a C like language The book is also a reference for students in computational linguistics or computational biology It presents examples of questions related to the automatic processing of natural language to the analysis of molecular sequences and to the management of textual databases

Combinatorics, Automata and Number Theory Valérie Berthé,Michel Rigo,2010-08-12 This collaborative volume presents trends arising from the fruitful interaction between the themes of combinatorics on words automata and formal language theory and number theory Presenting several important tools and concepts the authors also reveal some of the exciting and important relationships that exist between these different fields Topics include numeration systems word complexity function morphic words Rauzy tilings and substitutive dynamical systems Bratelli diagrams frequencies and ergodicity Diophantine approximation and transcendence asymptotic properties of digital functions decidability issues for D0L systems matrix products and joint spectral radius Topics are presented in a way that links them to the three main themes but also extends them to dynamical systems and ergodic theory fractals tilings and spectral properties of matrices Graduate students research mathematicians and computer scientists working in combinatorics theory of computation number theory symbolic dynamics fractals tilings and stringology will find much of interest in this book **Algorithms and Data Structures** Frank Dehne,1993-07-28 The papers in this volume were presented at the Third Workshop on Algorithmsand Data Structures WADS 93 held in Montreal Canada August 1993 The volume opens with five invited presentations Computing the all pairs longest chains in the plane by M J Atallah and D Z Chen Towards a better understanding of pure packet routing by A Borodin Tolerating faults in meshes and other networks abstract by R Cole A generalization of binary search by R M Karp and Groups and algebraic complexity abstract by A C Yao The volume continues with 52 regular presentations selected from 165 submissions each of which was evaluated by at least three program committee members many of whom called upon additional reviewers **Information Hiding** Ross Anderson,1996-11-13 This book constitutes the strictly refereed post workshop proceedings of the First International Workshop on Information Hiding held in Cambridge UK in May June 1996 within the research programme in computer security cryptology and coding theory organized by the volume editor at the Isaac Newton Institute in Cambridge Work on information hiding has been carried out over the last few years within different research communities mostly unaware of each other s existence The 26 papers presented define the state of the art and lay the foundation for a common terminology This workshop is very likely to be seen at some point as one of those landmark events that mark the birth of a new scientific discipline Sequences II Renato Capocelli,Alfredo DeSantis,Ugo Vaccaro,2012-12-06 This volume contains all papers presented at the workshop Sequences 91 Methods in Communication Security and Computer Science which was held Monday June 17 through Friday June 21 1991 at the Hotel Covo dei Saraceni Positano ltaly The event was sponsored by the Dipartimento di Informatica ed Applicazioni of the University of Salerno and

by the Dipartimento di Matematica of the University of Rome We wish to express our warmest thanks to the members of the program Committee Professor B Bose Professor S Even Professor Z Galil Professor A Lempel Professor J Massey Professor D Perrin and Professor J Storer Furthermore Professor Luisa Gargano provided effective ceaseless help both during the organization of the workshop and during the preparation of this vol ume Finally we would like to express our sincere gratitude to all participants of the Workshop R M C A D S U V Salerno December 1991 Contents Preface Vll Contributors Xill Communication On the Enumeration of Dyadic Distributions I F Blake GH Freeman and P R Stubley 3 Detection of Skew in a Sequence of Subsets M Blaum and J Bruck 12 Asymmetric Error Correcting Codes B Bose and S Cunningham 24 Binary Perfect Weighted Coverings PWC GoO Cohen S N Litsyn and H F Mattson Jr 36 Read Write Isolated Memory M Cohn 52 Polynomial Time Construction of Linear Codes with Almost Equal Weights G Lachaud and J Stern 59 Welch s Bound and Sequence Sets for Code Division Multiple Access Systems J L Massey and T Mittelholzer **Language and Automata Theory and Applications** Carlos Martin-Vide,Adrian Horia Dediu,Henning Fernau,2010-05-10 This book constitutes the proceedings of the 4th International Conference LATA 2010 held in May 2010 in Trier Germany The 47 full papers presented were carefully selected from 115 submissions and focus on topics such as algebraic language theory algorithmic learning bioinformatics computational biology pattern recognition program verification term rewriting and tree machines

Combinatorial Optimization William Cook,László Lovász,Paul D. Seymour,1995-01-01 This is a carefully refereed collection of invited survey articles written by outstanding researchers Aimed at researchers in discrete mathematics operations research and the theory of computing this book offers an in depth look at many topics not treated in textbooks

Secure Broadcast Communication Adrian Perrig,J.D. Tygar,2012-12-06 Secure Broadcast Communication in Wired and Wireless Networks presents a set of fundamental protocols for building secure information distribution systems Applications include wireless broadcast IP multicast sensor networks and webs ad hoc networks and satellite broadcast This book presents and compares new techniques for basic operations including key distribution for access control source authentication of transmissions and non repudiation of streams This book discusses how to realize these operations both with high performance processors and resource constrained processors It shows how to protect against adversaries who inject packets or eavesdrop The focus is on functional descriptions rather than theoretical discussions Protocols are presented as basic building blocks that can be combined with each other and traditional security protocols The book illustrates these protocols in practice by presenting a real implementation that provides security for an ad hoc sensor network This book can serve as a textbook or supplementary reading in graduate level courses on security or networking or can be used for self study *Combinatorial Pattern Matching* Maxime Crochemore,Dan Gusfield,1994 This volume presents the proceedings of the Fifth Annual Symposium on Combinatorial Pattern Matching held at Asilomar California in June 1994 The 26 selected papers in this volume are organized in chapters on Alignments Various Matchings Combinatorial Aspects and Bio Informatics

Combinatorial Pattern Matching addresses issues of searching and matching of strings and more complicated patterns as for example trees The goal is to derive non trivial combinatorial properties for such structures and then to exploit these properties in order to achieve superior performance for the corresponding computational problems In recent years combinatorial pattern matching has developed into a full fledged area of algorithmics and is expected to grow even further during the next years PUBLISHER S WEBSITE   *Combinatorial Pattern Matching* ,1997   *Concise Encyclopedia of Coding Theory* W. Cary Huffman,Jon-Lark Kim,Patrick Solé,2021-03-25 Most coding theory experts date the origin of the subject with the 1948 publication of A Mathematical Theory of Communication by Claude Shannon Since then coding theory has grown into a discipline with many practical applications antennas networks memories requiring various mathematical techniques from commutative algebra to semi definite programming to algebraic geometry Most topics covered in the Concise Encyclopedia of Coding Theory are presented in short sections at an introductory level and progress from basic to advanced level with definitions examples and many references The book is divided into three parts Part I fundamentals cyclic codes skew cyclic codes quasi cyclic codes self dual codes codes and designs codes over rings convolutional codes performance bounds Part II families AG codes group algebra codes few weight codes Boolean function codes codes over graphs Part III applications alternative metrics algorithmic techniques interpolation decoding pseudo random sequences lattices quantum coding space time codes network coding distributed storage secret sharing and code based cryptography Features Suitable for students and researchers in a wide range of mathematical disciplines Contains many examples and references Most topics take the reader to the frontiers of research   Combinatorial Pattern Matching Alberto Apostolico,Jotun Hein,1997-06-18 This book constitutes the refereed proceedings of the Eighth Annual Symposium on Combinatorial Pattern Matching CPM 97 held in Aarhus Denmark in June July 1997 The volume presents 20 revised full papers carefully selected from 32 submissions received also included are abstracts of two invited contributions The volume is devoted to the issue of searching and matching strings and more complicated patterns such as trees regular expressions graphs point sets and arrays The results presented are particularly relevant to molecular biology but also to information retrieval pattern recognition compiling data compression and program analysis   *Discrete Sequence Prediciton and Its Applications* ,1993   **DCC '98** James Andrew Storer,Martin Cohn,1998 Contains the proceedings from the Data Compression Conference 1998 Subjects covered include piecewise integer mapping for arithmetic coding compression of sparse matrices by arithmetic coding tag based models of English text practical multi resolution source coding and TSVQ   **Information Theory** Imre Csiszár,János Körner,2011-06-30 Csisz r and K rner s book is widely regarded as a classic in the field of information theory providing deep insights and expert treatment of the key theoretical issues It includes in depth coverage of the mathematics of reliable information transmission both in two terminal and multi terminal network scenarios Updated and considerably expanded this new edition presents unique discussions of information theoretic secrecy and of

zero error information theory including the deep connections of the latter with extremal combinatorics The presentations of all core subjects are self contained even the advanced topics which helps readers to understand the important connections between seemingly different problems Finally 320 end of chapter problems together with helpful hints for solving them allow readers to develop a full command of the mathematical techniques It is an ideal resource for graduate students and researchers in electrical and electronic engineering computer science and applied mathematics

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