
COMBINATORICS ON WORDS

Progress and Perspectives

Edited by
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Combinatorics on Words Larry J. Cummings, 2014-05-10 *Combinatorics on Words Progress and Perspectives* covers the proceedings of an international meeting by the same title held at the University of Waterloo Canada on August 16-22 1982. This meeting highlights the diverse aspects of combinatorics on words including the Thue systems, topological dynamics, combinatorial group theory, combinatorics, number theory, and computer science. This book is organized into four parts encompassing 19 chapters. The first part describes the Thue systems with the Church-Rosser property. A Thue system will be called Church-Rosser if two strings are congruent with respect to that system if and only if they have a common descendant that is a string that can be obtained applying only rewriting rules that reduce length. The next part deals with the problems related to the encoding of codes and the overlapping of words in rational languages. This part also explores the features of polynomially bounded DOL systems and yield codes. These topics are followed by discussions of some combinatorial properties of metrics over the free monoid and the Burnside problem of semigroups of matrices. The last part considers the ambiguity types of formal grammars, finite languages, computational complexity of algebraic structures, and the Bracket context tree functions. This book will be of value to mathematicians and advanced undergraduate and graduate students. *Combinatorics on Words*

Larry J. Cummings, 1983 **Combinatorics on Words** Larry J. Cummings, 1983 *Fields of Logic and Computation* Andreas Blass, Nachum Dershowitz, Wolfgang Reisig, 2010-08-16 Yuri Gurevich has played a major role in the discovery and development of applications of mathematical logic to theoretical and practical computer science. His interests have spanned a broad spectrum of subjects including decision procedures, the monadic theory of order, abstract state machines, formal methods, foundations of computer science, security, and much more. In May 2010 Yuri celebrated his 70th birthday. To mark that occasion on August 22 2010 a symposium was held in Brno, the Czech Republic, as a satellite event of the 35th International Symposium on Mathematical Foundations of Computer Science (MFCS 2010) and of the 19th EACSL Annual Conference on Computer Science Logic (CSL 2010). The meeting received generous support from Microsoft Research. In preparation for this 70th birthday event we asked Yuri's colleagues whether or not they were able to attend the symposium to contribute to a volume in his honor. This book is the result of that effort. The collection of articles herein begins with an academic biography, an annotated list of Yuri's publications and reports, and a personal tribute by Jan Van den Bussche. These are followed by 28 technical contributions. These articles, though they cover a broad range of topics, represent only a fraction of Yuri's multiple areas of interest. Each contribution was reviewed by one or two readers. In this regard the editors wish to thank several anonymous individuals for their assistance. **Basic Concepts in Information Theory and Coding** Solomon W.

Golomb, Robert E. Peile, Robert A. Scholtz, 2013-03-09 *Basic Concepts in Information Theory and Coding* is an outgrowth of a one-semester introductory course that has been taught at the University of Southern California since the mid-1960s. Lecture notes from that course have evolved in response to student reaction, new technological and theoretical developments, and the

insights of faculty members who have taught the course including the three of us. In presenting this material we have made it accessible to a broad audience by limiting prerequisites to basic calculus and the elementary concepts of discrete probability theory. To keep the material suitable for a one semester course we have limited its scope to discrete information theory and a general discussion of coding theory without detailed treatment of algorithms for encoding and decoding for various specific code classes. Readers will find that this book offers an unusually thorough treatment of noiseless self synchronizing codes as well as the advantage of problem sections that have been honed by reactions and interactions of several generations of bright students while Agent 00111 provides a context for the discussion of abstract concepts.

Advances in Algorithms, Languages, and Complexity Ding-Zhu Du, Ker-I Ko, 2013-12-01 This book contains a collection of survey papers in the areas of algorithms, languages and complexity the three areas in which Professor Ronald V. Book has made significant contributions. As a former student and a co-author who have been influenced by him directly we would like to dedicate this book to Professor Ronald V. Book to honor and celebrate his sixtieth birthday. Professor Book initiated his brilliant academic career in 1958 graduating from Grinnell College with a Bachelor of Arts degree. He obtained a Master of Arts in Teaching degree in 1960 and a Master of Arts degree in 1964 both from Wesleyan University and a Doctor of Philosophy degree from Harvard University in 1969 under the guidance of Professor Sheila A. Greibach. Professor Book's research in discrete mathematics and theoretical computer science is reflected in more than 150 scientific publications. These works have made a strong impact on the development of several areas of theoretical computer science. A more detailed summary of his scientific research appears in this volume separately.

Automatic Sequences Jean-Paul Allouche, Jeffrey Shallit, 2003-07-21 Uniting dozens of seemingly disparate results from different fields this book combines concepts from mathematics and computer science to present the first integrated treatment of sequences generated by finite automata. The authors apply the theory to the study of automatic sequences and their generalizations such as Sturmian words and k regular sequences. And further they provide applications to number theory particularly to formal power series and transcendence in finite characteristic physics computer graphics and music. Starting from first principles wherever feasible basic results from combinatorics on words numeration systems and models of computation are discussed. Thus this book is suitable for graduate students or advanced undergraduates as well as for mature researchers wishing to know more about this fascinating subject. Results are presented from first principles wherever feasible and the book is supplemented by a collection of 460 exercises 85 open problems and over 1600 citations to the literature.

Discrete Mathematics and Its Applications M. Sethumadhavan, 2006 Discrete Mathematics and its Applications provides an in depth review of recent applications in the area and points to the directions of research. It deals with a wide range of topics like Cryptology Graph Theory Fuzzy Topology Computer Science Mathematical Biology. A resource for researchers to keep track of the latest developments in these topics. Of interest to graph theorists computer scientists cryptographers security specialists.

STACS 2007 Wolfgang

Thomas,Pascal Weil,2007-05-24 This book constitutes the refereed proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science STACS 2007 held in Aachen Germany in February 2007 The 56 revised full papers presented together with 3 invited papers address the whole range of theoretical computer science as well as current challenges like biological computing quantum computing and mobile and net computing Index of Conference Proceedings Received

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Problems in Sorting and Graph Algorithms Dana Richards,1984 **Notices of the American Mathematical Society** American Mathematical Society,1984 Contains articles of significant interest to mathematicians including reports on current mathematical research JCMCC ,2003 Match ,2002 Automata, Languages and Programming Giorgio Ausiello,Mariangiola Dezani-Ciancaglini,Simonetta Ronchi Della Rocca,1989-06-28 This volume contains the proceedings of ICALP 89 held at Stresa Italy July 11 15 1989 ICALP 89 is the 16th International Colloquium on Automata Languages and Programming in a series of meetings sponsored by the European Association for Theoretical Computer Science EATCS It is a broadly based conference covering all aspects of theoretical computer science including topics such as computability automata theory formal language theory analysis of algorithms computational complexity mathematical aspects of programming language definition logic and semantics of programming languages foundations of logic programming theorem proving software specification computational geometry data types and data structures theory of data bases and knowledge based systems cryptography VLSI structures parallel and distributed computing models of concurrency and robotics

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