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The Complexity Theory Companion Lane A. Hemaspaandra, Mitsunori Ogiwara, 2013-03-14 The Complexity Theory Companion is an accessible algorithmically oriented research centered up to date guide to some of the most interesting techniques of complexity theory The book's thesis is that simple algorithms are at the heart of complexity theory From the tree pruning and interval pruning algorithms that shape the first chapter to the query simulation procedures that dominate the last chapter the central proof methods of the book are algorithmic And to more clearly highlight the role of algorithmic techniques in complexity theory the book is unlike other texts on complexity organized by technique rather than by topic Each chapter of this book focuses on one technique what it is and what results and applications it yields This textbook was developed at the University of Rochester in courses given to graduate students and advanced undergraduates Researchers also will find this book a valuable source of reference due to the comprehensive bibliography of close to five hundred entries the thirty five page subject index and the appendices giving overviews of complexity classes and reductions

Language and Automata Theory and Applications Alberto Leporati, Carlos Martín-Vide, Dana Shapira, Claudio Zandron, 2020-02-25 This book constitutes the proceedings of the 14th International Conference on Language and Automata Theory and Applications LATA 2020 which was planned to be held in Milan Italy in March 2020 Due to the corona pandemic the actual conference was postponed and will be held together with LATA 2021 The 26 full papers presented in this volume were carefully reviewed and selected from 59 submissions They were organized in topical sections named algebraic structures automata complexity grammars languages trees and graphs and words and codes The book also contains 6 invited papers in full paper length

STACS 2006 Bruno Durand, 2006-02-14 This book constitutes the refereed proceedings of the 23rd Annual Symposium on Theoretical Aspects of Computer Science held in February 2006 The 54 revised full papers presented together with three invited papers were carefully reviewed and selected from 283 submissions The papers address the whole range of theoretical computer science including algorithms and data structures automata and formal languages complexity theory semantics and logic in computer science

Developments in Language Theory Igor Potapov, 2015-07-17 This book constitutes the proceedings of the 19th International Conference on Developments in Language Theory DLT 2015 held in Liverpool UK The 31 papers presented together with 5 invited talks were carefully reviewed and selected from 54 submissions Its scope is very general and includes among others the following topics and areas combinatorial and algebraic properties of words and languages grammars acceptors and transducers for

strings trees graphs arrays algebraic theories for automata and languages codes efficient text algorithms symbolic dynamics decision problems relationships to complexity theory and logic picture description and analysis polyominoes and bidimensional patterns cryptography concurrency cellular automata bio inspired computing and quantum computing

Language and Automata Theory and Applications Adrian-Horia Dediu, Enrico Formenti, Carlos Martín-Vide, Bianca Truthe, 2015-02-23 This book constitutes the refereed proceedings of the 9th International Conference on Language and Automata Theory and Applications LATA 2015 held in Nice France in March 2015 The 53 revised full papers presented together with 5 invited talks were carefully reviewed and selected from 115 submissions The papers cover the following topics algebraic language theory algorithms for semi structured data mining algorithms on automata and words automata and logic automata for system analysis and program verification automata networks concurrency and Petri nets automatic structures cellular automata codes combinatorics on words computational complexity data and image compression descriptional complexity digital libraries and document engineering foundations of finite state technology foundations of XML fuzzy and rough languages grammatical inference and algorithmic learning graphs and graph transformation language varieties and semigroups parallel and regulated rewriting parsing patterns string and combinatorial issues in computational biology and bioinformatics string processing algorithms symbolic dynamics term rewriting transducers trees tree languages and tree automata weighted automata

Handbook of Discrete and Combinatorial Mathematics Kenneth H.

Rosen, 2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition

Computer Science -- Theory and Applications Lev D. Beklemishev, Daniil V. Musatov, 2015-06-22 This book constitutes the proceedings of the 10th

International Computer Science Symposium in Russia CSR 2015 held in Listvyanka Russia in July 2015 The 25 full papers presented in this volume were carefully reviewed and selected from 61 submissions In addition the book contains 4 invited lectures The scope of the proposed topics is quite broad and covers a wide range of areas in theoretical computer science and its applications

Mathematical Foundations of Computer Science 2003 Branislav Rován, Peter Vojtas, 2003-12-03 This book constitutes the refereed proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science MFCS 2003 held in Bratislava Slovakia in August 2003 The 55 revised full papers presented together with

7 invited papers were carefully reviewed and selected from 137 submissions All current aspects in theoretical computer science are addressed ranging from discrete mathematics combinatorial optimization graph theory networking algorithms and complexity to programming theory formal methods and mathematical logic **Dynamic Programming**

Multi-Objective Combinatorial Optimization Michal Mankowski, Mikhail Moshkov, 2021-02-08 This book introduces a fairly universal approach to the design and analysis of exact optimization algorithms for multi objective combinatorial optimization problems It proposes the circuits without repetitions representing the sets of feasible solutions along with the increasing and strictly increasing cost functions as a model for such problems The book designs the algorithms for multi stage and bi criteria optimization and for counting the solutions in the framework of this model As applications this book studies eleven known combinatorial optimization problems matrix chain multiplication global sequence alignment optimal paths in directed graphs binary search trees convex polygon triangulation line breaking text justification one dimensional clustering optimal bitonic tour segmented least squares optimization of matchings in trees and 0 1 knapsack problem The results presented are useful for researchers in combinatorial optimization This book is also useful as the basis for graduate courses Boolean Functions Yves Crama, Peter L. Hammer, 2011-05-16 Written by prominent experts in the field this monograph provides the first comprehensive unified presentation of the structural algorithmic and applied aspects of the theory of Boolean functions The book focuses on algebraic representations of Boolean functions especially disjunctive and conjunctive normal form representations This framework looks at the fundamental elements of the theory Boolean equations and satisfiability problems prime implicants and associated short representations dualization an in depth study of special classes of Boolean functions quadratic Horn shellable regular threshold read once functions and their characterization by functional equations and two fruitful generalizations of the concept of Boolean functions partially defined functions and pseudo Boolean functions Several topics are presented here in book form for the first time Because of the depth and breadth and its emphasis on algorithms and applications this monograph will have special appeal for researchers and graduate students in discrete mathematics operations research computer science engineering and economics *Parameterized Complexity Theory* J. Flum, M. Grohe, 2006-05-01 Parameterized complexity theory is a recent branch of computational complexity theory that provides a framework for a refined analysis of hard algorithmic problems The central notion of the theory fixed parameter tractability has led to the development of various new algorithmic techniques and a whole new theory of intractability This book is a state of the art introduction to both algorithmic techniques for fixed parameter tractability and the structural theory of parameterized complexity classes and it presents detailed proofs of recent advanced results that have not appeared in book form before Several chapters are each devoted to intractability algorithmic techniques for designing fixed parameter tractable algorithms and bounded fixed parameter tractability and subexponential time complexity The treatment is comprehensive and the reader is supported with exercises notes a detailed index and some background on

complexity theory and logic The book will be of interest to computer scientists mathematicians and graduate students engaged with algorithms and problem complexity

Computable Analysis Klaus Weihrauch, 2012-12-06 Is the exponential function computable Are union and intersection of closed subsets of the real plane computable Are differentiation and integration computable operators Is zero finding for complex polynomials computable Is the Mandelbrot set decidable And in case of computability what is the computational complexity Computable analysis supplies exact definitions for these and many other similar questions and tries to solve them Merging fundamental concepts of analysis and recursion theory to a new exciting theory this book provides a solid basis for studying various aspects of computability and complexity in analysis It is the result of an introductory course given for several years and is written in a style suitable for graduate level and senior students in computer science and mathematics Many examples illustrate the new concepts while numerous exercises of varying difficulty extend the material and stimulate readers to work actively on the text

Extremal Combinatorics Stasys Jukna, 2013-03-09 Combinatorial mathematics has been pursued since time immemorial and at a reasonable scientific level at least since Leonhard Euler 1707-1783 It rendered many services to both pure and applied mathematics Then along came the prince of computer science with its many mathematical problems and needs and it was combinatorics that best fitted the glass slipper held out Moreover it has been gradually more and more realized that combinatorics has all sorts of deep connections with mainstream areas of mathematics such as algebra geometry and probability This is why combinatorics is now apart of the standard mathematics and computer science curriculum This book is as an introduction to extremal combinatorics a field of combinatorial mathematics which has undergone a period of spectacular growth in recent decades The word extremal comes from the nature of problems this field deals with if a collection of finite objects numbers graphs vectors sets etc satisfies certain restrictions how large or how small can it be For example how many people can we invite to a party where among each three people there are two who know each other and two who don't know each other An easy Ramsey type argument shows that at most five persons can attend such a party Or suppose we are given a finite set of nonzero integers and are asked to mark an as large as possible subset of them under the restriction that the sum of any two marked integers cannot be marked

Reasoning Web. Learning, Uncertainty, Streaming, and Scalability Claudia d'Amato, Martin Theobald, 2018-09-14 This volume contains lecture notes of the 14th Reasoning Web Summer School RW 2018 held in Esch-sur-Alzette Luxembourg in September 2018 The research areas of Semantic Web Linked Data and Knowledge Graphs have recently received a lot of attention in academia and industry Since its inception in 2001 the Semantic Web has aimed at enriching the existing Web with meta data and processing methods so as to provide Web based systems with intelligent capabilities such as context awareness and decision support The Semantic Web vision has been driving many community efforts which have invested a lot of resources in developing vocabularies and ontologies for annotating their resources semantically Besides ontologies rules have long been a central part of the Semantic Web

framework and are available as one of its fundamental representation tools with logic serving as a unifying foundation Linked Data is a related research area which studies how one can make RDF data available on the Web and interconnect it with other data with the aim of increasing its value for everybody Knowledge Graphs have been shown useful not only for Web search as demonstrated by Google Bing etc but also in many application domains

SOFSEM 2024: Theory and Practice of Computer Science Henning Fernau, Serge Gaspers, Ralf Klasing, 2024-02-07 This book constitutes the proceedings of the 49th International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2024 held in Cochem Germany in February 2024 The 33 full papers presented in this book were carefully reviewed and selected from 81 submissions The book also contains one invited talk in full paper length They focus on original research and challenges in foundations of computer science including algorithms AI based methods computational complexity and formal models

Petri Net Algebra Eike Best, Raymond Devillers, Maciej Koutny, 2013-03-09 In modern society services and support provided by computer based systems have become ubiquitous and indeed have started to fundamentally alter the way people conduct their business Moreover it has become apparent that among the great variety of computer technologies available to potential users a crucial role will be played by concurrent systems The reason is that many commonly occurring phenomena and computer applications are highly concurrent typical examples include control systems computer networks digital hardware business computing and multimedia systems Such systems are characterised by ever increasing complexity which results when large numbers of concurrently active components interact This has been recognised and addressed within the computing science community In particular several formal models of concurrent systems have been proposed studied and applied in practice This book brings together two of the most widely used formalisms for describing and analysing concurrent systems Petri nets and process algebras On the one hand process algebras allow one to specify and reason about the design of complex concurrent computing systems by means of algebraic operators corresponding to common programming constructs Petri nets on the other hand provide a graphical representation of such systems and an additional means of verifying their correctness efficiently as well as a way of expressing properties related to causality and concurrency in system behaviour

Computer Science - Theory and Applications Edward A. Hirsch, Alexander A. Razborov, Alexei Semenov, Anatol Slissenko, 2008-05-14 This book constitutes the refereed proceedings of the Third International Computer Science Symposium in Russia CSR 2008 held in Moscow Russia June 7 12 2008 The 33 revised papers presented together with 5 invited papers and one opening lecture were carefully reviewed and selected from 103 submissions All major areas in computer science are addressed The theory track deals with algorithms protocols and data structures complexity and cryptography formal languages automata and their applications to computer science computational models and concepts proof theory and applications of logic to computer science The application part comprises programming and languages computer architecture and hardware design symbolic computing and numerical applications application software artificial

intelligence and robotics **Lectures on Logic and Computation** Nick Bezhanishvili, Valentin Goranko, 2012-06-23 The European Summer School in Logic Language and Information ESSLLI is organized every year by the Association for Logic Language and Information FoLLI in different sites around Europe The main focus of ESSLLI is on the interface between linguistics logic and computation ESSLLI offers foundational introductory and advanced courses as well as workshops covering a wide variety of topics within the three areas of interest Language and Computation Language and Logic and Logic and Computation During two weeks around 50 courses and 10 workshops are offered to the attendants each of 1.5 hours per day during a five days week with up to seven parallel sessions ESSLLI also includes a student session papers and posters by students only 1.5 hour per day during the two weeks and four evening lectures by senior scientists in the covered areas The 6 course notes were carefully reviewed and selected The papers are organized in topical sections on computational complexity multi agent systems natural language processing strategies in games and formal semantics

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