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KEY=AUTHOR - ZACHARY SHILOH

ALGORITHMS -- ESA 2011

19TH ANNUAL EUROPEAN SYMPOSIUM, SAARBRÜCKEN, GERMANY, SEPTEMBER 5-9, 2011, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 19th Annual European Symposium on Algorithms, ESA 2011, held in Saarbrücken, Germany, in September 2011 in the context of the combined conference ALGO 2011. The 67 revised full papers presented were carefully reviewed and selected from 255 initial submissions: 55 out of 209 in track design and analysis and 12 out of 46 in track engineering and applications. The papers are organized in topical sections on approximation algorithms, computational geometry, game theory, graph algorithms, stable matchings and auctions, optimization, online algorithms, exponential-time algorithms, parameterized algorithms, scheduling, data structures, graphs and games, distributed computing and networking, strings and sorting, as well as local search and set systems.

EXPERIMENTAL ALGORITHMS

6TH INTERNATIONAL WORKSHOP, WEA 2007, ROME, ITALY, JUNE 6-8, 2007, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 6th International Workshop on Experimental and Efficient Algorithms, WEA 2007, held in Rome, Italy, in June 2007. The 30 revised full papers presented together with three invited talks cover the design, analysis,

implementation, experimental evaluation, and engineering of efficient algorithms.

THE SHORTEST PATH PROBLEM

NINTH DIMACS IMPLEMENTATION CHALLENGE

American Mathematical Soc.

ALGORITHM ENGINEERING

BRIDGING THE GAP BETWEEN ALGORITHM THEORY AND PRACTICE

Springer Science & Business Media Algorithms are essential building blocks of computer applications. However, advancements in computer hardware, which render traditional computer models more and more unrealistic, and an ever increasing demand for efficient solution to actual real world problems have led to a rising gap between classical algorithm theory and algorithmics in practice. The emerging discipline of Algorithm Engineering aims at bridging this gap. Driven by concrete applications, Algorithm Engineering complements theory by the benefits of experimentation and puts equal emphasis on all aspects arising during a cyclic solution process ranging from realistic modeling, design, analysis, robust and efficient implementations to careful experiments. This tutorial - outcome of a GI-Dagstuhl Seminar held in Dagstuhl Castle in September 2006 - covers the essential aspects of this process in ten chapters on basic ideas, modeling and design issues, analysis of algorithms, realistic computer models, implementation aspects and algorithmic software libraries, selected case studies, as well as challenges in Algorithm Engineering. Both researchers and practitioners in the field will find it useful as a state-of-the-art survey.

EXPERIMENTAL ALGORITHMS

10TH INTERNATIONAL SYMPOSIUM, SEA 2011, KOLIMPARI, CHANIA, CRETE, GREECE, MAY 5-7, 2011, PROCEEDINGS

Springer This volume constitutes the refereed proceedings of the 10th International Symposium on Experimental Algorithms, SEA 2011, held in Kolimpari, Chania, Crete, Greece, in May 2011. The 36 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 83 submissions and present current research in the area of design, analysis, and experimental evaluation and engineering of algorithms, as well as in various aspects of computational optimization and its applications.

GRAPH PARTITIONING

John Wiley & Sons Graph partitioning is a theoretical subject with applications inmany areas, principally: numerical analysis, programs

mapping ontoparallel architectures, image segmentation, VLSI design. During thelast 40 years, the literature has strongly increased and bigimprovements have been made. This book brings together the knowledge accumulated during manyyears to extract both theoretical foundations of graph partitioningand its main applications.

THE STEINER TREE PROBLEM

Elsevier The Steiner problem asks for a shortest network which spans a given set of points. Minimum spanning networks have been well-studied when all connections are required to be between the given points. The novelty of the Steiner tree problem is that new auxiliary points can be introduced between the original points so that a spanning network of all the points will be shorter than otherwise possible. These new points are called Steiner points - locating them has proved problematic and research has diverged along many different avenues. This volume is devoted to the assimilation of the rich field of intriguing analyses and the consolidation of the fragments. A section has been given to each of the three major areas of interest which have emerged. The first concerns the Euclidean Steiner Problem, historically the original Steiner tree problem proposed by Jarník and Kössler in 1934. The second deals with the Steiner Problem in Networks, which was propounded independently by Hakimi and Levin and has enjoyed the most prolific research amongst the three areas. The Rectilinear Steiner Problem, introduced by Hanan in 1965, is discussed in the third part. Additionally, a forth section has been included, with chapters discussing areas where the body of results is still emerging. The collaboration of three authors with different styles and outlooks affords individual insights within a cohesive whole.

HANDBOOK OF DATA STRUCTURES AND APPLICATIONS

Taylor & Francis The Handbook of Data Structures and Applications was first published over a decade ago. This second edition aims to update the first by focusing on areas of research in data structures that have seen significant progress. While the discipline of data structures has not matured as rapidly as other areas of computer science, the book aims to update those areas that have seen advances. Retaining the seven-part structure of the first edition, the handbook begins with a review of introductory material, followed by a discussion of well-known classes of data structures, Priority Queues, Dictionary Structures, and Multidimensional structures. The editors next analyze miscellaneous data structures, which are well-known structures that elude easy classification. The book then addresses mechanisms and tools that were developed to facilitate the use of data structures in real programs. It concludes with an examination of the applications of data structures. Four new chapters have been added on Bloom Filters, Binary Decision Diagrams, Data Structures for Cheminformatics, and Data Structures for Big Data Stores, and updates

have been made to other chapters that appeared in the first edition. The Handbook is invaluable for suggesting new ideas for research in data structures, and for revealing application contexts in which they can be deployed. Practitioners devising algorithms will gain insight into organizing data, allowing them to solve algorithmic problems more efficiently.

HANDBOOK OF SCHEDULING

ALGORITHMS, MODELS, AND PERFORMANCE ANALYSIS

CRC Press Researchers in management, industrial engineering, operations, and computer science have intensely studied scheduling for more than 50 years, resulting in an astounding body of knowledge in this field. Handbook of Scheduling: Algorithms, Models, and Performance Analysis, the first handbook on scheduling, provides full coverage of the most re

GRAPH DRAWING SOFTWARE

Springer Science & Business Media After an introduction to the subject area and a concise treatment of the technical foundations for the subsequent chapters, this book features 14 chapters on state-of-the-art graph drawing software systems, ranging from general "tool boxes'' to customized software for various applications. These chapters are written by leading experts: they follow a uniform scheme and can be read independently from each other. The text covers many industrial applications.

PODC'19

PROCEEDINGS OF THE 2019 ACM SYMPOSIUM ON PRINCIPLES OF DISTRIBUTED COMPUTING

ALGORITHM ENGINEERING

KERNELIZATION

THEORY OF PARAMETERIZED PREPROCESSING

Cambridge University Press A complete introduction to recent advances in preprocessing analysis, or kernelization, with extensive examples using a single data set.

DIVERSITY IN COASTAL MARINE SCIENCES

HISTORICAL PERSPECTIVES AND CONTEMPORARY RESEARCH OF GEOLOGY, PHYSICS, CHEMISTRY, BIOLOGY, AND REMOTE SENSING

Springer This book integrates a wide range of subjects into a coherent purview of the status of coastal marine science. Designed for the

professional or specialist in coastal science, oceanography, and related disciplines, this work will appeal to workers in multidisciplinary fields that strive for practical solutions to environmental problems in coastal marine settings around the world. Examples are drawn from many different geographic areas, including the Black Sea region. Subject areas covered include aspects of coastal marine geology, physics, chemistry, biology, and history. These subject areas were selected because they form the basis for integrative investigation of salient environmental problems or perspective solutions or interpretation of historical context.

CYBER SECURITY CRYPTOGRAPHY AND MACHINE LEARNING

THIRD INTERNATIONAL SYMPOSIUM, CSCML 2019, BEER-SHEVA, ISRAEL, JUNE 27–28, 2019, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the Third International Symposium on Cyber Security Cryptography and Machine Learning, CSCML 2019, held in Beer-Sheva, Israel, in June 2019. The 18 full and 10 short papers presented in this volume were carefully reviewed and selected from 36 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.

ALGORITHMS - ESA 2015

23RD ANNUAL EUROPEAN SYMPOSIUM, PATRAS, GREECE, SEPTEMBER 14-16, 2015, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 23rd Annual European Symposium on Algorithms, ESA 2015, held in Patras, Greece, in September 2015, as part of ALGO 2015. The 86 revised full papers presented together with two invited lectures were carefully reviewed and selected from 320 initial submissions: 71 out of 261 in Track A, Design and Analysis, and 15 out of 59 in Track B, Engineering and Applications. The papers present real-world applications, engineering, and experimental analysis of algorithms.

ALGORITHMS – ESA 2013

21ST ANNUAL EUROPEAN SYMPOSIUM, SOPHIA ANTIPOLIS, FRANCE, SEPTEMBER 2-4, 2013. PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 21st Annual European Symposium on Algorithms, ESA 2013, held in Sophia Antipolis, France, in September 2013 in the context of the combined conference ALGO 2013. The 69 revised full papers presented were carefully reviewed and selected from 303 initial submissions: 53 out of 229 in track "Design

and Analysis" and 16 out of 74 in track "Engineering and Applications". The papers in this book present original research in all areas of algorithmic research, including but not limited to: algorithm engineering; algorithmic aspects of networks; algorithmic game theory; approximation algorithms; computational biology; computational finance; computational geometry; combinatorial optimization; data compression; data structures; databases and information retrieval; distributed and parallel computing; graph algorithms; hierarchical memories; heuristics and meta-heuristics; mathematical programming; mobile computing; on-line algorithms; parameterized complexity; pattern matching; quantum computing; randomized algorithms; scheduling and resource allocation problems; streaming algorithms.

EXPERIMENTAL ALGORITHMICS

FROM ALGORITHM DESIGN TO ROBUST AND EFFICIENT SOFTWARE

Springer Experimental algorithmics, as its name indicates, combines algorithmic work and experimentation: algorithms are not just designed, but also implemented and tested on a variety of instances. Perhaps the most important lesson in this process is that designing an algorithm is but the first step in the process of developing robust and efficient software for applications. Based on a seminar held at Dagstuhl Castle, Germany in September 2000, this state-of-the-art survey presents a coherent survey of the work done in the area so far. The 11 carefully reviewed chapters provide complete coverage of all current topics in experimental algorithmics.

NETWORK FLOWS AND MATCHING

FIRST DIMACS IMPLEMENTATION CHALLENGE

American Mathematical Soc. Interest has grown recently in the application of computational and statistical tools to problems in the analysis of algorithms. In many algorithmic domains, worst-case bounds are too pessimistic and tractable probabilistic models too unrealistic to provide meaningful predictions of practical algorithmic performance. Experimental approaches can provide knowledge where purely analytical methods fail and can provide insights to motivate and guide deeper analytical results. The DIMACS Implementation Challenge was organized to encourage experimental work in the area of network flows and matchings. Participants at sites in the U.S., Europe, and Japan undertook projects between November 1990 and August 1991 to test and evaluate algorithms for these problems. The Challenge culminated in a three-day workshop, held in October 1991 at DIMACS. This volume contains the revised and refereed versions of twenty-two of the papers presented at the workshop, along with supplemental material about the Challenge and the Workshop.

PARAMETERIZED COMPLEXITY THEORY

Springer Science & Business Media This book is a state-of-the-art introduction into both algorithmic techniques for fixed-parameter tractability and the structural theory of parameterized complexity classes. It presents detailed proofs of recent advanced results that have not appeared in book form before and replaces the earlier publication "Parameterized Complexity" by Downey and Fellows as the definitive book on this subject. The book will interest computer scientists, mathematicians and graduate students engaged with algorithms and problem complexity.

FUNDAMENTALS OF PARAMETERIZED COMPLEXITY

Springer Science & Business Media This comprehensive and self-contained textbook presents an accessible overview of the state of the art of multivariate algorithmics and complexity. Increasingly, multivariate algorithmics is having significant practical impact in many application domains, with even more developments on the horizon. The text describes how the multivariate framework allows an extended dialog with a problem, enabling the reader who masters the complexity issues under discussion to use the positive and negative toolkits in their own research. Features: describes many of the standard algorithmic techniques available for establishing parametric tractability; reviews the classical hardness classes; explores the various limitations and relaxations of the methods; showcases the powerful new lower bound techniques; examines various different algorithmic solutions to the same problems, highlighting the insights to be gained from each approach; demonstrates how complexity methods and ideas have evolved over the past 25 years.

AUTOMATA ON INFINITE WORDS

Springer Science & Business Media

PROCEEDINGS OF THE SEVENTH WORKSHOP ON ALGORITHM ENGINEERING AND EXPERIMENTS AND THE SECOND WORKSHOP ON ANALYTIC ALGORITHMICS AND COMBINATORICS

Siam Proceedings in Applied Ma Presents the aim of the annual ALENEX workshop, which is to provide a forum for the presentation of original research in the implementation and experimental evaluation of algorithms and data structures.

ALGORITHMS AND COMPLEXITY

11TH INTERNATIONAL CONFERENCE, CIAC 2019, ROME, ITALY, MAY 27-29, 2019, PROCEEDINGS

This book constitutes the refereed conference proceedings of the 11th International Conference on Algorithms and Complexity, CIAC 2019, held in

Rome, Italy, in May 2019. The 30 full papers were carefully reviewed and selected from 95 submissions. The International Conference on Algorithms and Complexity is intended to provide a forum for researchers working in all aspects of computational complexity and the use, design, analysis and experimentation of efficient algorithms and data structures. The papers present original research in the theory and applications of algorithms and computational complexity.

THE POWER OF ALGORITHMS

INSPIRATION AND EXAMPLES IN EVERYDAY LIFE

Springer Science & Business Media To examine, analyze, and manipulate a problem to the point of designing an algorithm for solving it is an exercise of fundamental value in many fields. With so many everyday activities governed by algorithmic principles, the power, precision, reliability and speed of execution demanded by users have transformed the design and construction of algorithms from a creative, artisanal activity into a full-fledged science in its own right. This book is aimed at all those who exploit the results of this new science, as designers and as consumers. The first chapter is an overview of the related history, demonstrating the long development of ideas such as recursion and more recent formalizations such as computability. The second chapter shows how the design of algorithms requires appropriate techniques and sophisticated organization of data. In the subsequent chapters the contributing authors present examples from diverse areas – such as routing and networking problems, Web search, information security, auctions and games, complexity and randomness, and the life sciences – that show how algorithmic thinking offers practical solutions and also deepens domain knowledge. The contributing authors are top-class researchers with considerable academic and industrial experience; they are also excellent educators and communicators and they draw on this experience with enthusiasm and humor. This book is an excellent introduction to an intriguing domain and it will be enjoyed by undergraduate and postgraduate students in computer science, engineering, and mathematics, and more broadly by all those engaged with algorithmic thinking.

ALGORITHMICS OF LARGE AND COMPLEX NETWORKS

DESIGN, ANALYSIS, AND SIMULATION

Springer Science & Business Media A state-of-the-art survey that reports on the progress made in selected areas of this important and growing field, aiding the analysis of existing networks and the design of new and more efficient algorithms for solving various problems on these networks.

HANDBOOK OF GRAPH DRAWING AND VISUALIZATION

CRC Press Get an In-Depth Understanding of Graph Drawing Techniques,

Algorithms, Software, and ApplicationsThe Handbook of Graph Drawing and Visualization provides a broad, up-to-date survey of the field of graph drawing. It covers topological and geometric foundations, algorithms, software systems, and visualization applications in business, education, scie

DEPENDENCE LOGIC

THEORY AND APPLICATIONS

Birkhäuser In this volume, different aspects of logics for dependence and independence are discussed, including both the logical and computational aspects of dependence logic, and also applications in a number of areas, such as statistics, social choice theory, databases, and computer security. The contributing authors represent leading experts in this relatively new field, each of whom was invited to write a chapter based on talks given at seminars held at the Schloss Dagstuhl Leibniz Center for Informatics in Wadern, Germany (in February 2013 and June 2015) and an Academy Colloquium at the Royal Netherlands Academy of Arts and Sciences (March 2014). Altogether, these chapters provide the most up-to-date look at this developing and highly interdisciplinary field and will be of interest to a broad group of logicians, mathematicians, statisticians, philosophers, and scientists. Topics covered include a comprehensive survey of many propositional, modal, and first-order variants of dependence logic; new results concerning expressive power of several variants of dependence logic with different sets of logical connectives and generalized dependence atoms; connections between inclusion logic and the least-fixed point logic; an overview of dependencies in databases by addressing the relationships between implication problems for fragments of statistical conditional independencies, embedded multivalued dependencies, and propositional logic; various Markovian models used to characterize dependencies and causality among variables in multivariate systems; applications of dependence logic in social choice theory; and an introduction to the theory of secret sharing, pointing out connections to dependence and independence logic.

HANDBOOK OF MATHEMATICAL MODELS IN COMPUTER VISION

Springer Science & Business Media Abstract Biological vision is a rather fascinating domain of research. Scientists of various origins like biology, medicine, neurophysiology, engineering, math ematics, etc. aim to understand the processes leading to visual perception process and at reproducing such systems. Understanding the environment is most of the time done through visual perception which appears to be one of the most fundamental sensory abilities in humans and therefore a significant amount of research effort has been dedicated towards modelling and repro ducing human visual abilities. Mathematical methods play a central role in

this endeavour. Introduction David Marr's theory v^as a pioneering step tov^ards understanding visual percep tion. In his view human vision was based on a complete surface reconstruction of the environment that was then used to address visual subtasks. This approach was proven to be insufficient by neuro-biologists and complementary ideas from statistical pattern recognition and artificial intelligence were introduced to bet ter address the visual perception problem. In this framework visual perception is represented by a set of actions and rules connecting these actions. The emerg ing concept of active vision consists of a selective visual perception paradigm that is basically equivalent to recovering from the environment the minimal piece information required to address a particular task of interest.

GRAPH PARTITIONING AND GRAPH CLUSTERING

American Mathematical Soc. Graph partitioning and graph clustering are ubiquitous subtasks in many applications where graphs play an important role. Generally speaking, both techniques aim at the identification of vertex subsets with many internal and few external edges. To name only a few, problems addressed by graph partitioning and graph clustering algorithms are: What are the communities within an (online) social network? How do I speed up a numerical simulation by mapping it efficiently onto a parallel computer? How must components be organized on a computer chip such that they can communicate efficiently with each other? What are the segments of a digital image? Which functions are certain genes (most likely) responsible for? The 10th DIMACS Implementation Challenge Workshop was devoted to determining realistic performance of algorithms where worst case analysis is overly pessimistic and probabilistic models are too unrealistic. Articles in the volume describe and analyze various experimental data with the goal of getting insight into realistic algorithm performance in situations where analysis fails.

PERTURBATION ANALYSIS OF OPTIMIZATION PROBLEMS

Springer Science & Business Media A presentation of general results for discussing local optimality and computation of the expansion of value function and approximate solution of optimization problems, followed by their application to various fields, from physics to economics. The book is thus an opportunity for popularizing these techniques among researchers involved in other sciences, including users of optimization in a wide sense, in mechanics, physics, statistics, finance and economics. Of use to research professionals, including graduate students at an advanced level.

EXTERNAL MEMORY ALGORITHMS

DIMACS WORKSHOP EXTERNAL MEMORY AND VISUALIZATION, MAY

20-22, 1998

American Mathematical Soc. The AMS and DIMACS are pleased to present this 50th volume in the DIMACS series. This series contains volumes coming out of programs at the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), which is headquartered at Rutgers University in partnership with Princeton University, AT&T Labs-Research, Bell Labs (Lucent Technologies), NEC Research Institute, and Telcordia Technologies (formerly Bellcore). The series includes topics on research and education concerning areas such as discrete and computational geometry, discrete optimization, data structures and algorithms, computational intractability, massive data sets, networks, graph theory, combinatorics, computational number theory and cryptology, discrete probability, recursive function theory and mathematical logic, Boolean functions, computational and mathematical biology, and computational algebra.

GRAPH COLOURINGS

Longman Publishing Group Nine papers on graph colourings, presented by speakers at a one-day meeting at the Open University in December 1988. The topics presented have been chosen to cover as wide a field as possible within the area of graph colourings. Each paper contains a cetain amount of survey material to put the results of the paper into perspective, as well as a discussion of new results. It is not the aim of this book to present a succession of highly technical research papers which would be better in a specialized journal.

ALGORITHM ENGINEERING

SELECTED RESULTS AND SURVEYS

Springer Algorithm Engineering is a methodology for algorithmic research that combines theory with implementation and experimentation in order to obtain better algorithms with high practical impact. Traditionally, the study of algorithms was dominated by mathematical (worst-case) analysis. In Algorithm Engineering, algorithms are also implemented and experiments conducted in a systematic way, sometimes resembling the experimentation processes known from fields such as biology, chemistry, or physics. This helps in counteracting an otherwise growing gap between theory and practice.

COMBINATORIAL THEORY

Springer Science & Business Media This book offers a well-organized, easy-to-follow introduction to combinatorial theory, with examples, notes and exercises. ". . . a very good introduction to combinatorics. This book can warmly be recommended first of all to students interested in combinatorics." Publicationes Mathematicae Debrecen

AUTOMATA, LANGUAGES, AND PROGRAMMING

42ND INTERNATIONAL COLLOQUIUM, ICALP 2015, KYOTO, JAPAN, JULY 6-10, 2015, PROCEEDINGS, PART II

Springer The two-volume set LNCS 9134 and LNCS 9135 constitutes the refereed proceedings of the 42nd International Colloquium on Automata, Languages and Programming, ICALP 2015, held in Kyoto, Japan, in July 2015. The 143 revised full papers presented were carefully reviewed and selected from 507 submissions. The papers are organized in the following three tracks: algorithms, complexity, and games; logic, semantics, automata and theory of programming; and foundations of networked computation: models, algorithms and information management.

PARAMETERIZED ALGORITHMS

Springer This comprehensive textbook presents a clean and coherent account of most fundamental tools and techniques in Parameterized Algorithms and is a self-contained guide to the area. The book covers many of the recent developments of the field, including application of important separators, branching based on linear programming, Cut & Count to obtain faster algorithms on tree decompositions, algorithms based on representative families of matroids, and use of the Strong Exponential Time Hypothesis. A number of older results are revisited and explained in a modern and didactic way. The book provides a toolbox of algorithmic techniques. Part I is an overview of basic techniques, each chapter discussing a certain algorithmic paradigm. The material covered in this part can be used for an introductory course on fixed-parameter tractability. Part II discusses more advanced and specialized algorithmic ideas, bringing the reader to the cutting edge of current research. Part III presents complexity results and lower bounds, giving negative evidence by way of W[1]-hardness, the Exponential Time Hypothesis, and kernelization lower bounds. All the results and concepts are introduced at a level accessible to graduate students and advanced undergraduate students. Every chapter is accompanied by exercises, many with hints, while the bibliographic notes point to original publications and related work.

GRAPH DRAWING AND NETWORK VISUALIZATION

25TH INTERNATIONAL SYMPOSIUM, GD 2017, BOSTON, MA, USA, SEPTEMBER 25-27, 2017, REVISED SELECTED PAPERS

Springer This book constitutes revised selected papers from the 25th International Symposium on Graph Drawing and Network Visualization, GD 2017, held in Boston, MA, USA, in September 2017.The 34 full and 9 short papers presented in this volume were carefully reviewed and selected from 87 submissions. Also included in this book are 2 abstracts of keynote presentations, 16 poster abstracts, and 1 contest report. The papers are

organized in topical sections named: straight-line representations; obstacles and visibility; topological graph theory; orthogonal representations and book embeddings; evaluations; tree drawings; graph layout designs; point-set embeddings; special representations; and beyond planarity.

GRAPH-THEORETIC CONCEPTS IN COMPUTER SCIENCE

29TH INTERNATIONAL WORKSHOP, WG 2003, ELSPEET, THE NETHERLANDS, JUNE 19-21, 2003, REVISED PAPERS

Springer Science & Business Media This book constitutes the thoroughly refereed postproceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2003, held in Elspeet, The Netherlands in June 2003. The 30 revised full papers presented together with 2 invited papers were carefully reviewed, improved, and selected from 78 submissions. The papers present a wealth of new results for various classes of graphs, graph computations, graph algorithms, and graph-theoretical applications in various felds.

THE CUBE

THE ULTIMATE GUIDE TO THE WORLD'S BEST-SELLING PUZZLE: SECRETS, STORIES, SOLUTIONS

Black Dog & Leventhal Pub Explains the history of the Rubik's Cube, shares puzzles from around the world based on the same principles, and offers new puzzles and solutions for cubes ranging from 2x2x2 to 7x7x7.