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Efficient Graph Representations

Jeremy P. Spinrad

Efficient Graph Representations

RC Schank

Efficient Graph Representations:

Efficient Graph Representations. Jeremy P. Spinrad,2003-01-01   Efficient Graph Representations Jeremy P. Spinrad,2003-01-01 The book deals with questions which arise from storing a graph in a computer Different classes of graphs admit different forms of computer representations and focusing on the representations gives a new perspective on a number of problems For a variety of classes of graphs the book considers such questions as existence of good representations algorithms for finding representations questions of characterizations in terms of representation and how the representation affects the complexity of optimization problems General models of efficient computer representations are also considered The book is designed to be used both as a text for a graduate course on topics related to graph representation and as a monograph for anyone interested in research in the field of graph representation The material is of interest both to those focusing purely on graph theory and to those working in the area of graph algorithms   *Graph-Based Representations in Pattern Recognition* Luc Brun,2005-03-23 This book constitutes the refereed proceedings of the 5th IAPR International Workshop on Graph Based Representations in Pattern Recognition GbRPR 2005 held in Poitiers France in April 2005 The 18 revised full papers and 17 revised poster papers presented were carefully reviewed and selected from 50 submissions The papers are organized in topical sections on graph representations graphs and linear representations combinatorial maps matching hierarchical graph abstraction and matching inexact   Graph-Based Representations in Pattern Recognition Xiaoyi Jiang,Miquel Ferrer,Andrea Torsello,2011-05-10 This book constitutes the refereed proceedings of the 8th IAPR TC 15 International Workshop on Graph Based Representations in Pattern Recognition GbRPR 2011 held in M nster Germany in May 2011 The 34 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on graph based representation and characterization graph matching classification and querying graph based learning graph based segmentation and applications   Basic Graph Theory Md. Saidur Rahman,2017-05-02 This undergraduate textbook provides an introduction to graph theory which has numerous applications in modeling problems in science and technology and has become a vital component to computer science computer science and engineering and mathematics curricula of universities all over the world The author follows a methodical and easy to understand approach Beginning with the historical background motivation and applications of graph theory the author first explains basic graph theoretic terminologies From this firm foundation the author goes on to present paths cycles connectivity trees matchings coverings planar graphs graph coloring and digraphs as well as some special classes of graphs together with some research topics for advanced study Filled with exercises and illustrations Basic Graph Theory is a valuable resource for any undergraduate student to understand and gain confidence in graph theory and its applications to scientific research algorithms and problem solving   **Mastering Discrete Mathematics** Gautami Devar,2025-02-20 Mastering Discrete Mathematics is a comprehensive and accessible resource designed to provide readers with a thorough

understanding of the fundamental concepts techniques and applications of discrete mathematics Written for students educators researchers and practitioners we offer a detailed overview of discrete mathematics a field that deals with countable distinct objects and structures We cover a wide range of topics including sets logic proof techniques combinatorics graph theory recurrence relations and generating functions Our clear and concise language makes complex mathematical concepts accessible to readers with varying levels of mathematical background Each concept is illustrated with examples and applications to demonstrate its relevance and practical significance in various domains Emphasizing the practical applications of discrete mathematics we explore its use in computer science cryptography optimization network theory and other scientific disciplines Each chapter includes exercises and problems to reinforce learning test understanding and encourage further exploration of the material Additional resources including supplementary materials interactive exercises and solutions to selected problems are available online to complement the book and facilitate self study and review Whether you are a student looking to gain a solid foundation in discrete mathematics an educator seeking to enhance your teaching materials or a practitioner interested in applying discrete mathematics techniques to real world problems Mastering Discrete Mathematics offers valuable insights and resources to support your learning and exploration of this fascinating field

Graph-Theoretic Concepts in Computer Science Fedor V. Fomin,2006-11-03 This book constitutes the thoroughly refereed post proceedings of the 32nd International Workshop on Graph Theoretic Concepts in Computer Science WG 2006 held in Bergen Norway in June 2006 The 30 revised full papers presented together with one invited paper were carefully selected from 91 submissions The papers address all aspects of graph theoretic concepts in computer science Algorithm Theory - SWAT 2006 Lars Arge,Rusins Freivalds,2006-06-27 This book constitutes the refereed proceedings of the 10th Scandinavian Workshop on Algorithm Theory SWAT 2006 held in Riga Latvia in July 2006 The proceedings includes 36 revised full papers presented together with 3 invited papers addressing issues of theoretical algorithmics and applications in various fields including graph algorithms computational geometry scheduling approximation algorithms network algorithms data storage and manipulation combinatorics sorting searching online algorithms optimization amd more

Computer-Human Interaction Research and Applications Andreas Holzinger,Hugo Plácido Silva,Markus Helfert,2019-10-19 This book constitutes the refereed proceedings of the First International Conference on Computer Human Interaction Research and Applications CHIRA 2017 held in Funchal Madeira Portugal in October November 2017 The 8 full papers presented in this book were carefully reviewed and selected from 35 submissions The papers selected to be included in this book contribute to the understanding of relevant trends of current research on computer human interaction including Interaction design human factors entertainment cognition perception user friendly software and systems pervasive technologies and interactive devices *Go Data Structures Explained: A Practical Guide with Examples* William E. Clark,2025-04-07 Go Data Structures Explained A Practical Guide with Examples delves into the foundational and advanced

aspects of data structures within the Go programming language offering a detailed exploration suitable for both students and seasoned programmers The book begins by guiding readers through the intricacies of setting up the Go environment ensuring they have all the necessary tools for effective development Readers are introduced to Go s syntax and fundamental concepts setting a solid base for understanding more complex data structures and algorithms that follow Following the foundational concepts the book systematically addresses various native and dynamic data structures including arrays slices strings linked lists trees hash tables stacks queues heaps and graphs Each chapter provides in depth explanations complemented by practical examples code snippets and real world applications Through this comprehensive coverage readers can expect to understand essential operations algorithms and efficient data manipulation techniques enhancing their ability to tackle complex programming challenges using Go The book not only caters to those seeking to solidify their comprehension of data structures but also provides valuable insights into concurrent programming sorting and searching algorithms By presenting practical coding examples and case studies readers are empowered to apply their learning effectively in real world scenarios Go Data Structures Explained is an invaluable resource for anyone aiming to harness the power of Go to develop efficient scalable and robust software solutions making it an essential addition to any programming library   <u>Sequential and Parallel Algorithms and Data Structures</u> Peter Sanders,Kurt Mehlhorn,Martin Dietzfelbinger,Roman Dementiev,2019-08-31 This textbook is a concise introduction to the basic toolbox of structures that allow efficient organization and retrieval of data key algorithms for problems on graphs and generic techniques for modeling understanding and solving algorithmic problems The authors aim for a balance between simplicity and efficiency between theory and practice and between classical results and the forefront of research Individual chapters cover arrays and linked lists hash tables and associative arrays sorting and selection priority queues sorted sequences graph representation graph traversal shortest paths minimum spanning trees optimization collective communication and computation and load balancing The authors also discuss important issues such as algorithm engineering memory hierarchies algorithm libraries and certifying algorithms Moving beyond the sequential algorithms and data structures of the earlier related title this book takes into account the paradigm shift towards the parallel processing required to solve modern performance critical applications and how this impacts on the teaching of algorithms The book is suitable for undergraduate and graduate students and professionals familiar with programming and basic mathematical language Most chapters have the same basic structure the authors discuss a problem as it occurs in a real life situation they illustrate the most important applications and then they introduce simple solutions as informally as possible and as formally as necessary so the reader really understands the issues at hand As they move to more advanced and optional issues their approach gradually leads to a more mathematical treatment including theorems and proofs The book includes many examples pictures informal explanations and exercises and the implementation notes introduce clean efficient implementations in languages such as C and Java   *Combinatorial*

Algorithms Cristina Bazgan,Henning Fernau,2022-05-29 This book constitutes the refereed proceedings of the 33rd International Workshop on Combinatorial Algorithms IWOCA 2022 which took place as a hybrid event in Trier Germany during June 7 9 2022 The 35 papers presented in these proceedings were carefully reviewed and selected from 86 submissions They deal with diverse topics related to combinatorial algorithms such as algorithms and data structures algorithmic and combinatorical aspects of cryptography and information security algorithmic game theory and complexity of games approximation algorithms complexity theory combinatorics and graph theory combinatorial generation enumeration and counting combinatorial optimization combinatorics of words computational biology computational geometry decompositions and combinatorial designs distributed and network algorithms experimental combinatorics fine grained complexity graph algorithms and modelling with graphs graph drawing and graph labelling network theory and temporal graphs quantum computing and algorithms for quantum computers online algorithms parameterized and exact algorithms probabilistic andrandomized algorithms and streaming algorithms **Algorithms and Data Structures** Kurt Mehlhorn,Peter Sanders,2008-05-27 Algorithms are at the heart of every nontrivial computer application and algorithmics is a modern and active area of computer science Every computer scientist and every professional programmer should know about the basic algorithmic toolbox structures that allow efficient organization and retrieval of data frequently used algorithms and basic techniques for modeling understanding and solving algorithmic problems This book is a concise introduction addressed to students and professionals familiar with programming and basic mathematical language Individual chapters cover arrays and linked lists hash tables and associative arrays sorting and selection priority queues sorted sequences graph representation graph traversal shortest paths minimum spanning trees and optimization The algorithms are presented in a modern way with explicitly formulated invariants and comment on recent trends such as algorithm engineering memory hierarchies algorithm libraries and certifying algorithms The authors use pictures words and high level pseudocode to explain the algorithms and then they present more detail on efficient implementations using real programming languages like C and Java The authors have extensive experience teaching these subjects to undergraduates and graduates and they offer a clear presentation with examples pictures informal explanations exercises and some linkage to the real world Most chapters have the same basic structure a motivation for the problem comments on the most important applications and then simple solutions presented as informally as possible and as formally as necessary For the more advanced issues this approach leads to a more mathematical treatment including some theorems and proofs Finally each chapter concludes with a section on further findings providing views on the state of research generalizations and advanced solutions *The SAGE Encyclopedia of Research Design* Bruce B. Frey,2021-12-27 The SAGE Encyclopedia of Research Design maps out how one makes decisions about research design interprets data and draws valid inferences undertakes research projects in an ethical manner and evaluates experimental design strategies and results From A to Z this four volume

work covers the spectrum of research design strategies and topics including among other things fundamental research design principles ethics in the research process quantitative versus qualitative and mixed method designs completely randomized designs multiple comparison tests diagnosing agreement between data and models fundamental assumptions in analysis of variance factorial treatment designs complete and incomplete block designs Latin square and related designs hierarchical designs response surface designs split plot designs repeated measures designs crossover designs analysis of covariance statistical software packages and much more Research design with its statistical underpinnings can be especially daunting for students and novice researchers At its heart research design might be described simply as a formalized approach toward problem solving thinking and acquiring knowledge the success of which depends upon clearly defined objectives and appropriate choice of statistical design and analysis to meet those objectives The SAGE Encyclopedia of Research Design will assist students and researchers with their work while providing vital information on research strategies

Computer Arithmetic Earl E Swartzlander,2015-03-17 The book provides many of the basic papers in computer arithmetic These papers describe the concepts and basic operations in the words of the original developers that would be useful to the designers of computers and embedded systems Although the main focus is on the basic operations of addition multiplication and division advanced concepts such as logarithmic arithmetic and the calculations of elementary functions are also covered This volume is part of a 3 volume set Computer Arithmetic Volume I Computer Arithmetic Volume II Computer Arithmetic Volume III The full set is available for sale in a print only version Contents OverviewAdditionParallel Prefix AdditionMulti Operand AdditionMultiplicationDivisionLogarithmsElementary FunctionsFloating Point Arithmetic Readership Graduate students and research professionals interested in computer arithmetic Key Features It reprints the classic papersIt covers the basic arithmetic operationsIt does this in the words of the creatorsKeywords Computer Arithmetic Adders Parallel Prefix Adders Multi operand Adders Multipliers Dividers Logarithmic Arithmetic Elementary Function Evaluation *Graph-Theoretic Concepts in Computer Science* Dieter Kratsch,2005-12-13 This book constitutes the thoroughly refereed post proceedings of the 31st International Workshop on Graph Theoretic Concepts in Computer Science WG 2005 held in Metz France in June 2005 The 38 revised full papers presented together with 2 invited papers were carefully selected from 125 submissions The papers provide a wealth of new results for various classes of graphs graph computations graph algorithms and graph theoretical applications in various fields The workshop aims at uniting theory and practice by demonstrating how graph theoretic concepts can be applied to various areas in Computer Science or by extracting new problems from applications The goal is to present recent research results and to identify and explore directions of future research *Racket Unleashed* Robert Johnson,2024-10-20 Racket Unleashed Building Powerful Programs with Functional and Language Oriented Programming is a comprehensive guide to mastering the Racket programming language renowned for its roots in the Lisp Scheme family and its prowess in functional programming This

book provides readers with a deep understanding of Racket s syntax semantics and powerful abstractions equipping them to utilize the language s full potential in creating robust and efficient software Covering essential topics such as recursion data structures macros and error handling the book serves as an invaluable resource for both beginners and experienced programmers seeking to harness the capabilities of Racket effectively Beyond the fundamentals Racket Unleashed explores advanced concepts like language oriented programming modular development and interfacing with other languages offering readers a pathway to leverage Racket s unique strengths in diverse programming scenarios Practical insights into building GUI applications ensuring cross platform deployment and optimizing parallel and concurrent processes further empower readers to develop scalable and maintainable applications With its clear explanations and detailed examples this book is designed to be an authoritative guide for anyone aspiring to create dynamic efficient programs using Racket s rich feature set **Algorithms and Computation** Ying Fei Dong,Ding-Zhu Du,Oscar H. Ibarra,2009-12-04 This book constitutes the refereed proceedings of the 20th International Symposium on Algorithms and Computation ISAAC 2009 held in Honolulu Hawaii USA in December 2009 The 120 revised full papers presented were carefully reviewed and selected from 279 submissions for inclusion in the book This volume contains topics such as algorithms and data structures approximation algorithms combinatorial optimization computational biology computational complexity computational geometry cryptography experimental algorithm methodologies graph drawing and graph algorithms internet algorithms online algorithms parallel and distributed algorithms quantum computing and randomized algorithms Theory and Applications of Models of Computation T.V. Gopal,Junzo Watada,2019-04-10 This book constitutes the refereed proceedings of the 15th Annual Conference on Theory and Applications of Models of Computation TAMC 2019 held in Kitakyushu Japan in April 2019 The 43 revised full papers were carefully reviewed and selected from 60 submissions The main themes of the selected papers are computability computer science logic complexity algorithms models of computation and systems theory MEDINFO 2019: Health and Wellbeing e-Networks for All Lucila Ohno-Machado,2019-11-15 Combining and integrating cross institutional data remains a challenge for both researchers and those involved in patient care Patient generated data can contribute precious information to healthcare professionals by enabling monitoring under normal life conditions and also helping patients play a more active role in their own care This book presents the proceedings of MEDINFO 2019 the 17th World Congress on Medical and Health Informatics held in Lyon France from 25 to 30 August 2019 The theme of this year s conference was Health and Wellbeing E Networks for All stressing the increasing importance of networks in healthcare on the one hand and the patient centered perspective on the other Over 1100 manuscripts were submitted to the conference and after a thorough review process by at least three reviewers and assessment by a scientific program committee member 285 papers and 296 posters were accepted together with 47 podium abstracts 7 demonstrations 45 panels 21 workshops and 9 tutorials All accepted paper and poster contributions are included in these proceedings The papers are grouped under four

thematic tracks interpreting health and biomedical data supporting care delivery enabling precision medicine and public health and the human element in medical informatics The posters are divided into the same four groups The book presents an overview of state of the art informatics projects from multiple regions of the world it will be of interest to anyone working in the field of medical informatics

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