

Leslie Ann Goldberg

*Efficient Algorithms
for Listing
Combinatorial
Structures*

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Efficient Algorithms For Listing Combinatorial Structures

Afonso Ferreira, Horst Reichel



Efficient Algorithms For Listing Combinatorial Structures:

Efficient Algorithms for Listing Combinatorial Structures Leslie Ann Goldberg, 1993-04-22 This thesis is concerned with the design of efficient algorithms for listing combinatorial structures The research described here gives some answers to the following questions which families of combinatorial structures have fast computer algorithms for listing their members What general methods are useful for listing combinatorial structures How can these be applied to those families that are of interest to theoretical computer scientists and combinatorialists Among those families considered are unlabeled graphs first order one properties Hamiltonian graphs graphs with cliques of specified order and k colorable graphs Some related work is also included that compares the listing problem with the difficulty of solving the existence problem the construction problem the random sampling problem and the counting problem In particular the difficulty of evaluating Polya's cycle polynomial is demonstrated

Efficient Algorithms for Listing Combinatorial Structures Leslie Ann Goldberg, 2009-07-30 This thesis is concerned with the design of efficient algorithms for listing combinatorial structures The research described here gives some answers to the following questions which families of combinatorial structures have fast computer algorithms for listing their members What general methods are useful for listing combinatorial structures How can these be applied to those families that are of interest to theoretical computer scientists and combinatorialists Among those families considered are unlabeled graphs first order one properties Hamiltonian graphs graphs with cliques of specified order and k colorable graphs Some related work is also included that compares the listing problem with the difficulty of solving the existence problem the construction problem the random sampling problem and the counting problem In particular the difficulty of evaluating Polya's cycle polynomial is demonstrated

STACS 94 Patrice Enjalbert, Ernst W. Mayr, Klaus W. Wagner, 1994-02-09 This volume constitutes the proceedings of the 11th annual Symposium on Theoretical Aspects of Computer Science STACS 94 held in Caen France February 24-26 1994 Besides three prominent invited papers the proceedings contains 60 accepted contributions chosen by the international program committee during a highly competitive reviewing process from a total of 234 submissions for 38 countries The volume competently represents most areas of theoretical computer science with a certain emphasis on parallel algorithms and complexity

The Algorithm Design Manual Steven S. Skiena, 2020-10-05 My absolute favorite for this kind of interview preparation is Steven Skiena's *The Algorithm Design Manual* More than any other book it helped me understand just how astonishingly commonplace graph problems are they should be part of every working programmer's toolkit The book also covers basic data structures and sorting algorithms which is a nice bonus every 1 pager has a simple picture making it easy to remember This is a great way to learn how to identify hundreds of problem types Steve Yegge Get that Job at Google Steven Skiena's *Algorithm Design Manual* retains its title as the best and most comprehensive practical algorithm guide to help identify and solve problems Every programmer should read this book and anyone working in the field should keep it close to hand This is the best investment a programmer or aspiring programmer

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WALCOM: Algorithms and Computation Sandip Das,Ryuhei Uehara,2009-02-02 This book constitutes the refereed proceedings of the Third International Workshop on Algorithms and Computation WALCOM 2009 held in Kolkata India in February 2009 The 30 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 102 submissions The papers feature original research in the areas of design and analysis of algorithms computational geometry graph drawing and graph algorithms The papers are organized in topical sections on computational geometry graph algorithms complexity graph drawing approximation algorithms and randomized algorithms **The Algorithm**

Design Manual: Text Steven S. Skiena, 1998 This volume helps take some of the mystery out of identifying and dealing with key algorithms Drawing heavily on the author's own real world experiences the book stresses design and analysis Coverage is divided into two parts the first being a general guide to techniques for the design and analysis of computer algorithms The second is a reference section which includes a catalog of the 75 most important algorithmic problems By browsing this catalog readers can quickly identify what the problem they have encountered is called what is known about it and how they should proceed if they need to solve it This book is ideal for the working professional who uses algorithms on a daily basis and has need for a handy reference This work can also readily be used in an upper division course or as a student reference guide THE ALGORITHM DESIGN MANUAL comes with a CD ROM that contains a complete hypertext version of the full printed book the source code and URLs for all cited implementations over 30 hours of audio lectures on the design and analysis of algorithms are provided all keyed to on line lecture notes *Frontiers in Algorithms* D.T. Lee, Danny Z Chen, Shi Ying, 2010-07-12 This book constitutes the refereed proceedings of the 4th International Frontiers of Algorithmics Workshop FAW 2010 held in Wuhan China in August 2010 The 28 revised full papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 57 submissions The Workshop will provide a focused forum on current trends of research on algorithms discrete structures and their applications and will bring together international experts at the research frontiers in these areas to exchange ideas and to present significant new results The mission of the Workshop is to stimulate the various fields for which algorithmics can become a crucial enabler and to strengthen the ties between the Eastern and Western research communities of algorithmics and applications WALCOM: Algorithms and Computation Shin-ichi Nakano, Md. Saidur Rahman, 2008-01-13 This book constitutes the refereed proceedings of the Second International Workshop on Algorithms and Computation WALCOM 2008 held in Dhaka Bangladesh in February 2008 The 19 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 57 submissions The papers feature original research in the areas of algorithms and data structures combinatorial algorithms graph drawings and graph algorithms parallel and distributed algorithms string algorithms computational geometry graphs in bioinformatics and computational biology The papers are organized in topical sections on bioinformatics algorithms computational geometry and graph drawing graph algorithms and algorithm engineering *STACS 2001* Afonso Ferreira, Horst Reichel, 2003-06-29 This book constitutes the refereed proceedings of the 18th Annual Symposium on Theoretical Aspects of Computer Science STACS 2001 held in Dresden Germany in February 2001 The 46 revised full papers presented together with three invited papers were carefully reviewed and selected from a total of 153 submissions The papers address foundational aspects from all current areas of theoretical computer science including algorithms data structures automata formal languages complexity verification logic graph theory optimization etc Algorithms and Computation Peter Eades, Tadao Takaoka, 2003-06-30 This book constitutes the refereed proceedings of the 12th International Conference on Algorithms and Computation ISAAC 2001

held in Christchurch New Zealand in December 2001 The 62 revised full papers presented together with three invited papers were carefully reviewed and selected from a total of 124 submissions The papers are organized in topical sections on combinatorial generation and optimization parallel and distributed algorithms graph drawing and algorithms computational geometry computational complexity and cryptology automata and formal languages computational biology and string matching and algorithms and data structures

Algorithm Theory - SWAT 2004 Torben Hagerup, Jyrki Katajainen, 2004-06-08 This volume contains the papers presented at SWAT 2004 the 9th Scandinavian Workshop on Algorithm Theory which was held on July 8 10 2004 at the Louisiana Museum of Modern Art in Humlebæk on the resund coast north of Copenhagen The SWAT workshop in reality a full edged conference has been held biennially since 1988 and rotates among the ve Nordic countries Denmark Finland Iceland Norway and Sweden The previous meetings took place in Halmstad 1988 Bergen 1990 Helsinki 1992 Århus 1994 Reykjavik 1996 Stockholm 1998 Bergen 2000 and Turku 2002 SWAT alternates with the Workshop on Algorithms and Data Structures WADS held in o numbered years

The call for papers invited contributions on all aspects of algorithm theory A total of 121 submissions was received an overall SWAT high These underwent thorough reviewing and the program committee met in Copenhagen on March 20 21 2004 and selected 40 papers for presentation at the conference The program committee was impressed with the quality of the submissions and given the constraints imposed by the choice of conference venue and duration had to make some tough decisions The scientific program was enriched by invited presentations by Gerth Stålting Brodal University of Aarhus and Charles E Leiserson Massachusetts Institute of Technology Two satellite events were held immediately before SWAT 2004 the Workshop on On Line Algorithms OLA 2004 organized by members of the Department of Mathematics and Computer Science at the University of Southern Denmark and the Summer School on Experimental Algorithmics organized by the Performance Engineering Laboratory in the Department of Computing at the University of Copenhagen More information about SWAT 2004 and its satellite events is available at the conference web site <http://swat.diku.dk>

Conceptual Structures: Logical, Linguistic, and Computational Issues Bernhard Ganter, Guy W. Mineau, 2006-12-30 Computer scientists create models of a perceived reality

Through AI techniques these models aim at providing the basic support for emulating cognitive behavior such as reasoning and learning which is one of the main goals of the AI research effort Such computer models are formed through the interaction of various acquisition and inference mechanisms perception concept learning conceptual clustering hypothesis testing probabilistic inference etc and are represented using different paradigms tightly linked to the processes that use them Among these paradigms let us cite biological models neural nets genetic programming logic based models first order logic modal logic rule based systems virtual reality models object systems agent systems probabilistic models Bayesian networks fuzzy logic linguistic models conceptual dependency graphs language based representations etc One of the strengths of the Conceptual Graph CG theory is its versatility in terms of the representation paradigms under which it falls It can be viewed and therefore used

under different representation paradigms which makes it a popular choice for a wealth of applications. Its full coupling with different cognitive processes lead to the opening of the field toward related research communities such as the Description Logic, Formal Concept Analysis and Computational Linguistic communities. We now see more and more research results from one community enrich the other laying the foundations of common philosophical grounds from which a successful synergy can emerge.

Graph Drawing Giuseppe Liotta, 2004-03-04. The 11th International Symposium on Graph Drawing GD 2003 was held on September 21-24 2003 at the Università degli Studi di Perugia, Perugia, Italy. GD 2003 attracted 93 participants from academic and industrial institutions in 17 countries. In response to the call for papers, the program committee received 88 regular submissions describing original research and/or system demonstrations. Each submission was reviewed by at least 4 program committee members and comments were returned to the authors. Following extensive e-mail discussions, the program committee accepted 34 long papers (12 pages each) in the proceedings and 11 short papers (6 pages each) in the proceedings. Also 6 posters (2 pages each) in the proceedings were displayed in the conference poster gallery. In addition to the 88 submissions, the program committee also received a submission of special type, one that was not competing with the others for a time slot in the conference program and that collects selected open problems in graph drawing. The aim of this paper, which was refereed with particular care and UNCHANGED two rounds of revisions, is to stimulate future research in the graph drawing community. The paper presents 42 challenging open problems in different areas of graph drawing and contains more than 120 references. Although the length of the paper makes it closer to a journal version than to a conference extended abstract, we decided to include it in the conference proceedings so that it could easily reach in a short time the vast majority of the graph drawing community.

Surveys in Combinatorics, 2001 James William Peter Hirschfeld, 2001. The British Combinatorial Conference is held every two years and is now a key event for mathematicians worldwide working in combinatorics. This volume is published on the occasion of the 18th meeting, which was held 1st-6th July 2001 at the University of Sussex. The papers contained here are surveys contributed by the invited speakers and are thus of a quality befitting the event. There is also a tribute to Crispin Nash-Williams, past chairman of the British Combinatorial Committee. The diversity of the subjects covered means that this will be a valuable reference for researchers in combinatorics. However, graduate students will also find much here that could be of use for stimulating future research.

Fundamentals of Computation Theory Maciej Liskiewicz, Rüdiger Reischuk, 2005-08-04. This book constitutes the refereed proceedings of the 15th International Symposium Fundamentals of Computation Theory FCT 2005, held in Lebeck, Germany, in August 2005. The 46 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 105 submissions. The papers are organized in topical sections on circuits, automata, complexity, approximability, computational and structural complexity, graphs and complexity, computational game theory, visual cryptography and computational geometry, query complexity, distributed systems, automata and formal languages, semantics, approximation.

algorithms average case complexity algorithms graph algorithms and pattern matching Computing and Combinatorics Jie Wang, 2003-05-15 This book constitutes the refereed proceedings of the 7th Annual International Conference on Computing and Combinatorics COCOON 2001 held in Guilin China in August 2001 The 50 revised full papers and 16 short papers presented were carefully reviewed and selected from 97 submissions The papers are organized in topical sections on complexity theory computational biology computational geometry data structures and algorithms games and combinatorics graph algorithms and complexity graph drawing graph theory online algorithms randomized and average case algorithms Steiner trees systems algorithms and modeling and computability **Conceptual Structures: Current Practices** William M. Tepfenhart, Judith P. Dick, John F. Sowa, 1994-07-27 This book is the proceedings of the Second International Conference on Conceptual Structures ICCS 94 held at College Park Maryland USA in August 1994 This proceedings presents on an international scale up to the minute research results on theoretical and applicational aspects of conceptual graphs particularly on the use of contexts in knowledge representation The concept of contexts is highly important for all kinds of knowledge intensive systems The book is organized into sections on natural language understanding rational problem solving conceptual graph theory contexts and canons and data modeling **Randomized Algorithms: Approximation, Generation, and Counting** Russ Bubley, 2012-12-06 Randomized Algorithms discusses two problems of fine pedigree counting and generation both of which are of fundamental importance to discrete mathematics and probability When asking questions like How many are there and What does it look like on average of families of combinatorial structures answers are often difficult to find we can be blocked by seemingly intractable algorithms Randomized Algorithms shows how to get around the problem of intractability with the Markov chain Monte Carlo method as well as highlighting the method's natural limits It uses the technique of coupling before introducing path coupling a new technique which radically simplifies and improves upon previous methods in the area Discovery Science João Gama, Vitor Santos Costa, Alípio Jorge, Pavel Brazdil, 2009-10-07 This book constitutes the refereed proceedings of the twelfth International Conference on Discovery Science DS 2009 held in Porto Portugal in October 2009 The 35 revised full papers presented were carefully selected from 92 papers The scope of the conference includes the development and analysis of methods for automatic scientific knowledge discovery machine learning intelligent data analysis theory of learning as well as their applications Graph-Theoretic Concepts in Computer Science Juraj Hromkovič, Manfred Nagl, Bernhard Westfechtel, 2005-01-25 During its 30 year existence the International Workshop on Graph Theoretic Concepts in Computer Science has become a distinguished and high quality computer science event The workshop aims at uniting theory and practice by demonstrating how graph theoretic concepts can successfully be applied to various areas of computer science and by exposing new theories emerging from applications In this way WG provides a common ground for the exchange of information among people dealing with several graph problems and working in various disciplines Thereby the workshop contributes to forming an interdisciplinary research community The

original idea of the Workshop on Graph Theoretic Concepts in Computer Science was ingenuity in all theoretical aspects and applications of graph concepts wherever applied. Within the last ten years the development has strengthened in particular the topic of structural graph properties in relation to computational complexity. This workshop has become pivotal for the community interested in these areas. An aim specific to the 30th WG was to support the central role of WG in both of the prementioned areas on the one hand and on the other hand to promote its originally broader scope. The 30th WG was held at the Physikzentrum Bad Honnef which serves as the main meeting point of the German Physical Society. It offers a secluded setting for research conferences, seminars and workshops and has proved to be especially stimulating for fruitful discussions. Talks were given in the new lecture hall with a modern double rear projection interactive electronic board and full video conferencing equipment.

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