

A vertical strip on the left side of the cover. It features a DNA double helix structure. The top and bottom sections have a tan background, while the middle section has a dark purple background. A computer keyboard is visible in the purple section.

ALGORITHMS ON STRINGS, TREES, AND SEQUENCES

*Computer Science and
Computational Biology*

DAN GUSFIELD

Two DNA double helix structures are shown on a black background. They are positioned vertically, one to the left of the other, and are rendered in a 3D style with white and grey ribbons.

Algorithms On Strings Trees And Sequences Computer Science And

Dan Gusfield



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Theoretical Computer Science Mario Coppo,Elena Lodi,2005-09-28 This book constitutes the refereed proceedings of the 9th International Conference on Theoretical Computer Science ICTCS 2005 held at the Certosa

di Pontignano Siena Italy in October 2005 The 29 revised full papers presented together with an invited paper and abstracts of 2 invited talks were carefully reviewed and selected from 83 submissions The papers address all current issues in theoretical computer science and focus especially on analysis and design of algorithms computability computational complexity cryptography formal languages and automata foundations of programming languages and program analysis natural computing paradigms quantum computing bioinformatics program specification and verification term rewriting theory of logical design and layout type theory security and symbolic and algebraic computation **Algorithmic Aspects in Information and Management** Bo Chen, 2010-06-26 While the areas of information management and management science are full of algorithmic challenges the proliferation of data has called for the design of efficient and effective algorithms and data structures for their management and processing The International Conference on Algorithmic Aspects in Information and Management AAIM is intended for original algorithmic research on immediate applications and/or fundamental problems pertinent to information management and management science to be broadly construed The conference aims at bringing together researchers in computer science operations research applied mathematics economics and related disciplines This volume contains papers presented at AAIM 2010 the 6th International Conference on Algorithmic Aspects in Information and Management which was held during July 19-21 2010 in Weihai China We received a total of 50 submissions Each submission was reviewed by three members of the Program Committee or their deputies on the quality originality soundness and significance of its contribution The committee decided to accept 31 papers The program also included two invited keynote talks The success of the conference resulted from the input of many people We would like first of all to thank all the members of the Program Committee for their expert evaluation of the submissions The local organizers in the School of Computer Science and Technology Shandong University did an extraordinary job for which we are very grateful We thank the National Natural Science Foundation of China Montana State University USA University of Warwick UK and Shandong University China for their sponsorship **String Processing and Information Retrieval** Franco Maria Nardini, Nadia Pisanti, Rossano Venturini, 2023-09-19 This volume LNCS 14240 constitutes the refereed proceedings of the 30th International Symposium on String Processing and Information Retrieval SPIRE 2023 held in Pisa Italy during September 26-28 2023 The 31 full papers presented were carefully reviewed and selected from 47 submissions They cover topics such as data structures algorithms constrained Substring complexity data compression codes succinct k spectra and LCP array of wheeler DFAs *Algorithms and Complexity* Irene Finocchi, Loukas Georgiadis, 2025-05-17 The two volume set LNCS 15679 and 15680 constitutes the refereed proceedings of the 14th International Conference on Algorithms and Complexity CIAC 2025 held in Rome Italy during June 10-12 2025 The 44 full papers included in these proceedings were carefully reviewed and selected from 110 submissions They focus on all aspects of important venue for researchers working on computational complexity and the design analysis experimentation and application of efficient algorithms and data structures *Automata,*

Languages and Programming Lars Arge, 2007-06-29 This book constitutes the refereed proceedings of the 34th International Colloquium on Automata Languages and Programming ICALP 2007 held in Wroclaw Poland in July 2007 The 76 revised full papers presented together with 4 invited lectures were carefully reviewed and selected from 242 submissions The papers are grouped in three major tracks on algorithms automata complexity and games on logic semantics and theory of programming and on security and cryptography foundations Construction of Fundamental Data Structures for Strings Felipe A.

Louza, Simon Gog, Guilherme P. Telles, 2020-10-07 This book reviews recent theoretical and practical advances on suffix sorting and introduces algorithmic solutions to problems of wide interest for the construction of fundamental data structures that operate efficiently on strings namely constructing the suffix array the longest common prefix LCP array the document array and the Lyndon array These data structures are the cornerstone of many algorithmic solutions in Bioinformatics Information Retrieval and Data Compression This book introduces the relevant problem areas their importance the notation and related algorithms and then presents the algorithmic solutions for indexing data structure constructions This book is intended for graduate students researchers and practitioners from Computer Science and Bioinformatics with a strong interest in algorithmic aspects **String Processing and Information Retrieval** Fabio Crestani, Paolo Ferragina, Mark Sanderson, 2006-09-29 This book constitutes the refereed proceedings of the 13th International Conference on String

Processing and Information Retrieval SPIRE 2006 The 26 revised full papers and 5 revised short papers presented together with 2 invited talks were carefully reviewed and selected The papers are organized in topical sections on Web clustering and text categorisation strings user behaviour Web search algorithms compression correction information retrieval applications bio informatics and Web search engines *String Processing and Information Retrieval* Alberto Apostolico, Massimo Melucci, 2004-12-07 The papers contained in this volume were presented at the 11th Conference on String Processing and Information Retrieval SPIRE held Oct 5 8 2004 at the Department of Information Engineering of the University of Padova Italy They were selected from 123 papers submitted in response to the call for papers In addition there were invited lectures by C J van Rijsbergen University of Glasgow UK and Setsuo Arikawa Kyushu University Japan In view of the large number of good quality submissions some were accepted this year also as short abstracts These also appear in the proceedings Papers solicited for SPIRE 2004 were meant to constitute original contributions to areas such as string pattern searching matching and discovery data compression text and data mining machine learning tasks methods algorithms media and evaluation in information retrieval digital libraries and applications to and interactions with domains such as genome analysis speech and natural language processing Web links and communities and multilingual data SPIRE has its origins in the South American Workshop on String Processing which was first held in 1993 Starting in 1998 the focus of the symposium was broadened to include the area of information retrieval due to the common emphasis on information processing The first 10 meetings were held in Belo Horizonte Brazil 1993 Valparaiso Chile 1995 Recife Brazil 1996 Valparaiso Chile 1997 Santa

Cruz Bolivia 1998 Cancun Mexico 1999 A Coruna Spain 2000 Laguna San Rafael Chile 2001 Lisbon Portugal 2002 and Manaus Brazil 2003 Algorithms - ESA 2001 Friedhelm Meyer auf der Heide, 2003-05-15 This book constitutes the refereed proceedings of the 9th Annual European Symposium on Algorithms ESA 2001 held in Aarhus Denmark in August 2001 The 41 revised full papers presented together with three invited contributions were carefully reviewed and selected from 102 submissions The papers are organized in topical sections on caching and prefetching online algorithms data structures optimization and approximation sequences scheduling shortest paths geometry distributed algorithms graph algorithms pricing broadcasting and multicasting graph labeling and graph drawing and graphs Algorithms - ESA 2002 Rolf Möhring, Rajeev Raman, 2003-08-02 This volume contains the 74 contributed papers and abstracts of 4 of the 5 invited talks presented at the 10th Annual European Symposium on Algorithms ESA 2002 held at the University of Rome La Sapienza Rome Italy 17-21 September 2002 For the first time ESA had two tracks with separate program committees which dealt respectively with the design and mathematical analysis of algorithms the Design and Analysis track real world applications engineering and experimental analysis of algorithms the Engineering and Applications track Previous ESAs were held in Bad Honnef Germany 1993 Utrecht The Netherlands 1994 Corfu Greece 1995 Barcelona Spain 1996 Graz Austria 1997 Venice Italy 1998 Prague Czech Republic 1999 Saarbrücken Germany 2000 and Aarhus Denmark 2001 The predecessor to the Engineering and Applications track of ESA was the Annual Workshop on Algorithm Engineering WAE Previous WAEs were held in Venice Italy 1997 Saarbrücken Germany 1998 London UK 1999 Saarbrücken Germany 2000 and Aarhus Denmark 2001 The proceedings of the previous ESAs were published as Springer LNCS volumes 726 855 979 1284 1461 1643 1879 and 2161 The proceedings of WAEs from 1999 onwards were published as Springer LNCS volumes 1668 1982 and 2161

Algorithms and Computation Hee-Kap Ahn, Chan-Su Shin, 2014-11-07 This book constitutes the refereed proceedings of the 25th International Symposium on Algorithms and Computation ISAAC 2014 held in Jeonju Korea in December 2014 The 60 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 171 submissions for inclusion in the book The focus of the volume is on the following topics computational geometry combinatorial optimization graph algorithms enumeration matching and assignment data structures and algorithms fixed parameter tractable algorithms scheduling algorithms computational complexity approximation algorithms graph theory and algorithms online and approximation algorithms and network and scheduling algorithms **SOFSEM 2007: Theory and Practice of Computer Science** Jan Leeuwen, 2007-01-04 This book constitutes the refereed proceedings of the 33rd Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2007 held in Harrachov Czech Republic in January 2007 The 69 revised full papers presented together with 11 invited contributions were carefully reviewed and selected from 283 submissions The papers were organized in four topical tracks **String Processing and Information Retrieval** Diego Arroyuelo, Barbara Pöblete, 2022-10-31 This book constitutes the refereed proceedings of the

29th International Symposium on String Processing and Information Retrieval SPIRE 2022 held in Concepción Chile in November 2022 The 23 full papers presented in this volume were carefully reviewed and selected from 43 submissions They cover topics such as data structures algorithms information retrieval compression combinatorics on words and computational biology

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

Flexible Pattern Matching in Strings Gonzalo Navarro, Mathieu Raffinot, 2002-05-27 Presents recently developed algorithms for searching for simple multiple and extended strings regular expressions exact and approximate matches

Algorithms and Data Structures Frank Dehne, John Iacono, Jörg-Rüdiger Sack, 2011-07-18 This book constitutes the refereed proceedings of the 12th Algorithms and Data Structures Symposium WADS 2011 held in New York NY USA in August 2011 The Algorithms and Data Structures Symposium WADS formerly Workshop on Algorithms and Data Structures is intended as a forum for researchers in the area of design and analysis of algorithms and data structures The 59 revised full papers presented in this volume were carefully reviewed and selected from 141 submissions The papers present original research on the theory and application of algorithms and data structures in all areas including combinatorics computational geometry databases graphics parallel and distributed computing

Combinatorial Pattern Matching Martin Farach-Colton, 1998-07-08 This is a fair overview of the basic problems in Solar Physics The authors address not only the physics that is well understood but also discuss many open questions The lecturers involvement in the SOHO mission guarantees a modern and up to date analysis of observational data and makes this volume an extremely valuable source for further research

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