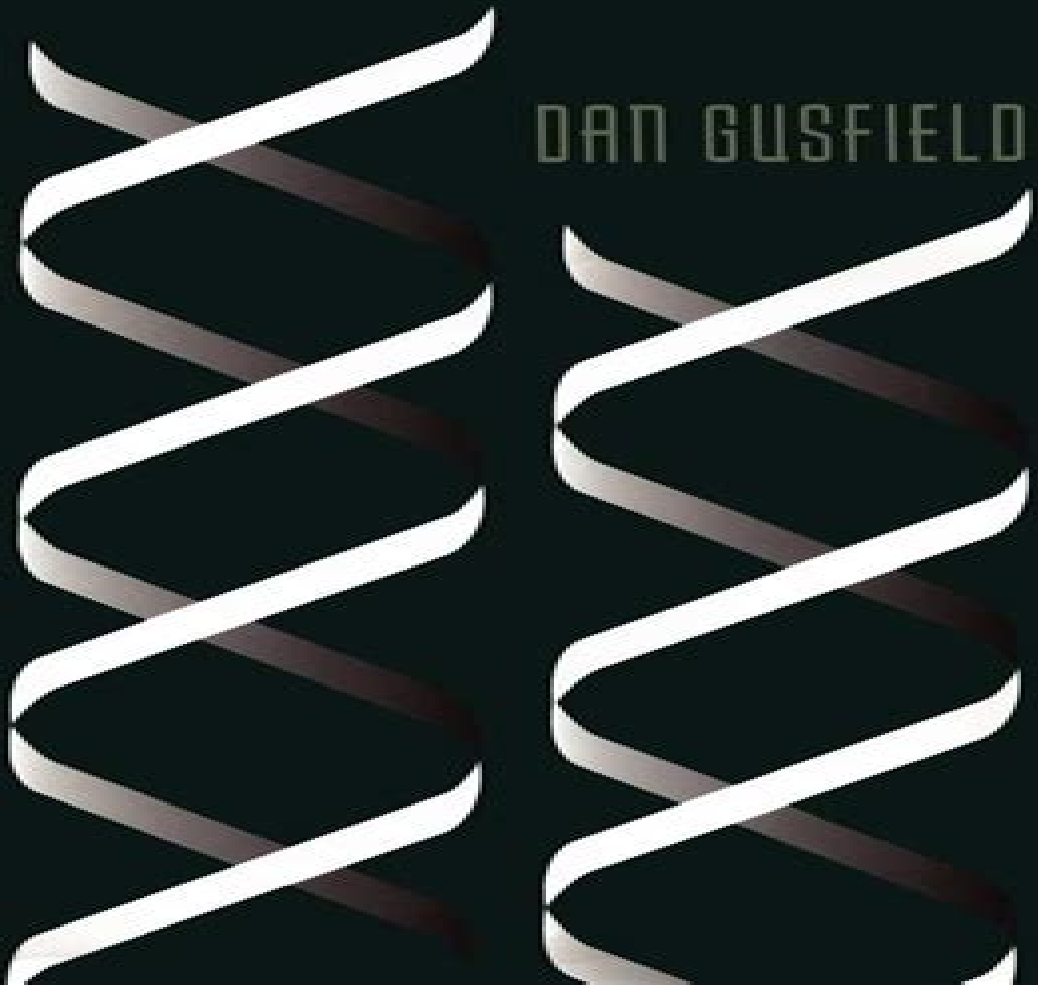




ALGORITHMS ON STRINGS, TREES, AND SEQUENCES

*Computer Science and
Computational Biology*

DAN GUSFIELD



Algorithms On Strings Trees And Sequences Computer Science And

Adrian-Horia Dediu, Carlos Martín-Vide



Algorithms On Strings Trees And Sequences Computer Science And:

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Algorithms on Strings, Trees, and Sequences Dan Gusfield,1997 String algorithms are a traditional area of study in computer science In recent years their importance has grown dramatically with the huge increase of electronically stored text and of molecular sequence data DNA or protein sequences produced by various genome projects This 1997 book is a general text on computer algorithms for string processing In addition to pure computer science the book contains extensive discussions on biological problems that are cast as string problems and on methods developed to solve them It emphasises the fundamental ideas and techniques central to today s applications New approaches to this complex material simplify methods that up to now have been for the specialist alone With over 400 exercises to reinforce the material and develop additional topics the book is suitable as a text for graduate or advanced undergraduate students in computer science computational biology or bio informatics Its discussion of current algorithms and techniques also makes it a reference for professionals

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the 25th International Symposium on String Processing and Information Retrieval SPIRE 2018 held in Lima Peru in October 2018 The 22 full papers and 6 short papers presented were carefully reviewed and selected from 51 submissions They focus on fundamental studies on string processing and information retrieval as well as on computational biology Language and Automata Theory and Applications Adrian-Horia Dediu, Carlos Martín-Vide, 2012-02-29 This book constitutes the refereed proceedings of the 6th International Conference on Language and Automata Theory and Applications LATA 2012 held in A Coruña Spain in March 2012 The 41 revised full papers presented together with 3 invited talks and 2 invited tutorials were carefully reviewed and selected from 114 initial submissions The volume features contributions from both classical theory fields and application areas e g informatics systems biology language technology artificial intelligence etc Among the topics covered are algebraic language theory automata and logic systems analysis systems verifications computational complexity decidability unification graph transformations language based cryptography and applications in data mining computational learning and pattern recognition **Automata, Languages and Programming** Lars Arge, Christian Cachin, Tomasz Jurdzinski, 2007-08-26 This volume features the refereed proceedings from the 34th International Colloquium on Automata Languages and Programming held in Wrocław Poland in July 2007 Seventy six full papers are presented together with four invited lectures The papers are grouped into three major tracks covering algorithms automata complexity and games logic semantics and theory of programming and security and cryptography foundations **String Processing and Information Retrieval** Mariano Consens, Gonzalo Navarro, 2005-10-17 This book constitutes the refereed proceedings of the 12th International Conference on String Processing and Information Retrieval SPIRE 2005 held in Buenos Aires Argentina in November 2005 The 27 revised full papers and 17 revised short papers presented were carefully reviewed and selected from 102 submissions The papers address current issues in all aspects of string processing information retrieval pattern matching computational biology semi structured data and related applications *Algorithms for Next-Generation Sequencing Data* Mourad Elloumi, 2017-09-18 The 14 contributed chapters in this book survey the most recent developments in high performance algorithms for NGS data offering fundamental insights and technical information specifically on indexing compression and storage error correction alignment and assembly The book will be of value to researchers practitioners and students engaged with bioinformatics computer science mathematics statistics and life sciences **String Processing and Information Retrieval** Nieves R. Brisaboa, Simon J. Puglisi, 2019-10-05 This volume constitutes the refereed proceedings of the 26th International Symposium on String Processing and Information Retrieval SPIRE 2019 held in Segovia Spain in October 2019 The 28 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 59 submissions They cover topics such as data compression information retrieval string algorithms algorithms computational biology indexing and compression and compressed data structures

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