

Algorithms in Structural Molecular Biology

BRUCE R. DONALD



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Computational Molecular Biology

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Algorithms in Structural Molecular Biology Bruce R. Donald, 2023-08-15 An overview of algorithms important to computational structural biology that addresses such topics as NMR and design and analysis of proteins Using the tools of information technology to understand the molecular machinery of the cell offers both challenges and opportunities to computational scientists Over the past decade novel algorithms have been developed both for analyzing biological data and for synthetic biology problems such as protein engineering This book explains the algorithmic foundations and computational approaches underlying areas of structural biology including NMR nuclear magnetic resonance X ray crystallography and the design and analysis of proteins peptides and small molecules Each chapter offers a concise overview of important concepts focusing on a key topic in the field Four chapters offer a short course in algorithmic and computational issues related to NMR structural biology giving the reader a useful toolkit with which to approach the fascinating yet thorny computational problems in this area A recurrent theme is understanding the interplay between biophysical experiments and computational algorithms The text emphasizes the mathematical foundations of structural biology while maintaining a balance between algorithms and a nuanced understanding of experimental data Three emerging areas particularly fertile ground for research students are highlighted NMR methodology design of proteins and other molecules and the modeling of protein flexibility The next generation of computational structural biologists will need training in geometric algorithms provably good approximation algorithms scientific computation and an array of techniques for handling noise and uncertainty in combinatorial geometry and computational biophysics This book is an essential guide for young scientists on their way to research success in this exciting field *Handbook of Computational Molecular Biology* Srinivas Aluru, 2005-12-21 The enormous complexity of biological systems at the molecular level must be answered with powerful computational methods Computational biology is a young field but has seen rapid growth and advancement over the past few decades Surveying the progress made in this multidisciplinary field the *Handbook of Computational Molecular Biology of* **An Introduction to Bioinformatics Algorithms** Neil C. Jones, Pavel A. Pevzner, 2004-08-06 An introductory text that emphasizes the underlying algorithmic ideas that are driving advances in bioinformatics This introductory text offers a clear exposition of the algorithmic principles driving advances in bioinformatics Accessible to students in both biology and computer science it strikes a unique balance between rigorous mathematics and practical techniques emphasizing the ideas underlying algorithms rather than offering a collection of apparently unrelated problems The book introduces biological and algorithmic ideas together linking issues in computer science to biology and thus capturing the interest of students in both subjects It demonstrates that relatively few design techniques can be used to solve a large number of practical problems in biology and presents this material intuitively *An Introduction to Bioinformatics Algorithms* is one of the first books on bioinformatics that can be used by students at an undergraduate level It includes a dual table of contents organized by algorithmic idea and

biological idea discussions of biologically relevant problems including a detailed problem formulation and one or more solutions for each and brief biographical sketches of leading figures in the field These interesting vignettes offer students a glimpse of the inspirations and motivations for real work in bioinformatics making the concepts presented in the text more concrete and the techniques more approachable PowerPoint presentations practical bioinformatics problems sample code diagrams demonstrations and other materials can be found at the Author s website

Computational Molecular Biology Pavel A. Pevzner,2000-08-17 In one of the first major texts in the emerging field of computational molecular biology Pavel Pevzner covers a broad range of algorithmic and combinatorial topics and shows how they are connected to molecular biology and to biotechnology The book has a substantial computational biology without formulas component that presents the biological and computational ideas in a relatively simple manner This makes the material accessible to computer scientists without biological training as well as to biologists with limited background in computer science Computational Molecular Biology series Computer science and mathematics are transforming molecular biology from an informational to a computational science Drawing on computational statistical experimental and technological methods the new discipline of computational molecular biology is dramatically increasing the discovery of new technologies and tools for molecular biology The new MIT Press Computational Molecular Biology series provides a unique venue for the rapid publication of monographs textbooks edited collections reference works and lecture notes of the highest quality

Research in Computational Molecular Biology Vineet Bafna,S. Cenk Sahinalp,2011-03-24 This book constitutes the refereed proceedings of the 15th Annual International Conference on Research in Computational Molecular Biology RECOMB 2011 held in Vancouver Canada in March 2011 The 43 revised full papers were carefully reviewed and selected from 153 submissions The papers cover a wide range of topics including molecular sequence analysis recognition of genes and regulatory elements molecular evolution gene expression biological networks sequencing and genotyping technologies genomics population statistical genetics systems biology imaging computational proteomics molecular structural biology

Research in Computational Molecular Biology Benny Chor,2012-04-13 This book constitutes the refereed proceedings of the 16th Annual International Conference on Research in Computational Molecular Biology RECOMB 2012 held in Barcelona Spain in April 2012 The 31 revised full papers presented together with 5 keynote lectures were carefully reviewed and selected from 200 submissions The papers feature current research in all areas of computational molecular biology including molecular sequence analysis recognition of genes and regulatory elements molecular evolution protein structure structural genomics analysis of gene expression biological networks sequencing and genotyping technologies drug design probabilistic and combinatorial algorithms systems biology computational proteomics structural and functional genomics information systems for computational biology and imaging

Algorithmic Foundations of Robotics VI Michael Erdmann,David Hsu,Mark Overmars,A. Frank van der Stappen,2005-06-23 Robot algorithms are abstractions of computational processes that control or

reason about motion and perception in the physical world Because actions in the physical world are subject to physical laws and geometric constraints the design and analysis of robot algorithms raise a unique combination of questions in control theory computational and differential geometry and computer science Algorithms serve as a unifying theme in the multi disciplinary field of robotics This volume consists of selected contributions to the sixth Workshop on the Algorithmic Foundations of Robotics This is a highly competitive meeting of experts in the field of algorithmic issues related to robotics and automation

Mining the Biomedical Literature Hagit Shatkay, Mark Craven, 2012-08-10 A concise introduction to fundamental methods for finding and extracting relevant information from the ever increasing amounts of biomedical text available The introduction of high throughput methods has transformed biology into a data rich science Knowledge about biological entities and processes has traditionally been acquired by thousands of scientists through decades of experimentation and analysis The current abundance of biomedical data is accompanied by the creation and quick dissemination of new information Much of this information and knowledge however is represented only in text form in the biomedical literature lab notebooks Web pages and other sources Researchers need to find relevant information in the vast amounts of text has created a surge of interest in automated text analysis In this book Hagit Shatkay and Mark Craven offer a concise and accessible introduction to key ideas in biomedical text mining The chapters cover such topics as the relevant sources of biomedical text text analysis methods in natural language processing the tasks of information extraction information retrieval and text categorization and methods for empirically assessing text mining systems Finally the authors describe several applications that recognize entities in text and link them to other entities and data resources support the curation of structured databases and make use of text to enable further prediction and discovery

Algorithms in Computational Molecular Biology Mourad Elloumi, Albert Y. Zomaya, 2011-04-04 This book represents the most comprehensive and up to date collection of information on the topic of computational molecular biology Bringing the most recent research into the forefront of discussion Algorithms in Computational Molecular Biology studies the most important and useful algorithms currently being used in the field and provides related problems It also succeeds where other titles have failed in offering a wide range of information from the introductory fundamentals right up to the latest most advanced levels of study

Bioinformatics Algorithms Ion Mandoiu, Alexander Zelikovsky, 2008-02-25 Presents algorithmic techniques for solving problems in bioinformatics including applications that shed new light on molecular biology This book introduces algorithmic techniques in bioinformatics emphasizing their application to solving novel problems in post genomic molecular biology Beginning with a thought provoking discussion on the role of algorithms in twenty first century bioinformatics education Bioinformatics Algorithms covers General algorithmic techniques including dynamic programming graph theoretical methods hidden Markov models the fast Fourier transform seeding and approximation algorithms Algorithms and tools for genome and sequence analysis including formal and approximate models for gene clusters advanced algorithms for

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