

Natural Computing Series

Nataša Jonoska
Masahico Saito *Editors*

Discrete and Topological Models in Molecular Biology

 Springer

Discrete And Topological Models In Molecular Biology

Natural Computing Series

Terry C. Jones



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Discrete and Topological Models in Molecular Biology Nataša Jonoska, Masahico Saito, 2013-12-23 Theoretical tools and insights from discrete mathematics theoretical computer science and topology now play essential roles in our understanding of vital biomolecular processes The related methods are now employed in various fields of mathematical biology as instruments to zoom in on processes at a molecular level This book contains expository chapters on how contemporary models from discrete mathematics in domains such as algebra combinatorics and graph and knot theories can provide perspective on biomolecular problems ranging from data analysis molecular and gene arrangements and structures and knotted DNA embeddings via spatial graph models to the dynamics and kinetics of molecular interactions The contributing authors are among the leading scientists in this field and the book is a reference for researchers in mathematics and theoretical computer science who are engaged with modeling molecular and biological phenomena using discrete methods It may also serve as a guide and supplement for graduate courses in mathematical biology or bioinformatics introducing nontraditional aspects of mathematical biology

ReCombinatorics Dan Gusfield, 2014-07-03 When a Philadelphia girl intercepts a message about an impending British attack against her father's regiment commanded by General Washington in White Marsh she travels alone by horseback to warn the Patriot army

Integer Linear Programming in Computational and Systems Biology Dan Gusfield, 2019-06-13 This hands on tutorial text for non experts demonstrates biological applications of a versatile modeling and optimization technique

Language, Life, Limits Arnold Beckmann, Ersébet Csuhaj-Varjú, Klaus Meer, 2014-06-05 This book constitutes the refereed proceedings of the 10th Conference on Computability in Europe CiE 2014 held in Budapest Hungary in June 2014 The 42 revised papers presented were carefully reviewed and selected from 78 submissions and included together with 15 invited papers in this proceedings The conference had six special sessions computational linguistics bio inspired computation history and philosophy of computing computability theory online algorithms and complexity in automata theory

Big Data and Differential Privacy Nii O. Attoh-Okine, 2017-05-12 A comprehensive introduction to the theory and practice of contemporary data science analysis for railway track engineering Featuring a practical introduction to state of the art data analysis for railway track engineering Big Data and Differential Privacy Analysis Strategies for Railway Track Engineering addresses common issues with the implementation of big data applications while exploring the limitations advantages and disadvantages of more conventional methods In addition the book provides a unifying approach to analyzing large volumes of data in railway track engineering using an array of proven methods and software technologies Dr Attoh Okine considers some of today's most notable applications and implementations and highlights when a particular method or algorithm is most appropriate Throughout the book presents numerous real world examples to illustrate the latest railway engineering big data applications of predictive analytics such as the Union Pacific Railroad's use of big data to reduce train derailments increase the velocity of

shipments and reduce emissions In addition to providing an overview of the latest software tools used to analyze the large amount of data obtained by railways Big Data and Differential Privacy Analysis Strategies for Railway Track Engineering Features a unified framework for handling large volumes of data in railway track engineering using predictive analytics machine learning and data mining Explores issues of big data and differential privacy and discusses the various advantages and disadvantages of more conventional data analysis techniques Implements big data applications while addressing common issues in railway track maintenance Explores the advantages and pitfalls of data analysis software such as R and Spark as well as the Apache™ Hadoop data collection database and its popular implementation MapReduce Big Data and Differential Privacy is a valuable resource for researchers and professionals in transportation science railway track engineering design engineering operations research and railway planning and management The book is also appropriate for graduate courses on data analysis and data mining transportation science operations research and infrastructure management NII ATTOH OKINE PhD PE is Professor in the Department of Civil and Environmental Engineering at the University of Delaware The author of over 70 journal articles his main areas of research include big data and data science computational intelligence graphical models and belief functions civil infrastructure systems image and signal processing resilience engineering and railway track analysis Dr Attoh Okine has edited five books in the areas of computational intelligence infrastructure systems and has served as an Associate Editor of various ASCE and IEEE journals

Logical Modeling of Cellular Processes: From Software Development to Network Dynamics Matteo Barberis, Tomáš Helikar, 2019-08-16 Mathematical models have become invaluable tools for understanding the intricate dynamic behavior of complex biochemical and biological systems Among computational strategies logical modeling has been recently gaining interest as an alternative approach to address network dynamics Due to its advantages including scalability and independence of kinetic parameters the logical modeling framework is becoming increasingly popular to study the dynamics of highly interconnected systems such as cell cycle progression T cell differentiation and gene regulation Novel tools and standards have been developed to increase the interoperability of logical models which can now be employ to respond a variety of biological questions This Research Topic brings together the most recent and cutting edge approaches in the area of logical modeling including among others novel biological applications software development and model analysis techniques **Mathematical Reviews** ,2004

Proceedings of the ... Annual International Conference on Research in Computational Molecular Biology ,2004

Proceedings of the Eighth Annual International Conference on Research in Computational Molecular Biology

Philip E Bourne, RECOMB04: The Eighth Annual International Conference on Research in Computational Molecular Biology 2004,2004 **Publications Update** World Bank,1996 Modelling in Molecular Biology Gabriel Ciobanu, Grzegorz

Rozenberg, 2012-10-20 Presents new mathematical and computational models as well as statistical methods for the solution of fundamental problems in the biosciences Describes how to find regularities among empirical data as well as conceptual

models and theories Scientific Report Scripps Research Institute,1994 **Government Reports Announcements & Index** ,1993 *Documentation Abstracts* ,1995 **Periodicum Biologorum** ,2005 **Dissertation Abstracts International** ,1996 *Physics Briefs* ,1988 *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society,2003 **Modelling in Molecular Biology** Gabriel Ciobanu,Grzegorz Rozenberg,2004-07-02 Presents new mathematical and computational models as well as statistical methods for the solution of fundamental problems in the biosciences Describes how to find regularities among empirical data as well as conceptual models and theories **Annales zoologici Fennici** ,2008

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