

Martyn Amos

Theoretical and Experimental DNA Computation



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Theoretical And Experimental Dna Computation Natural Computing Series

Alex A. Freitas



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Theoretical and Experimental DNA Computation Martyn Amos, 2005-06-23 This book provides a broad overview of the entire field of DNA computation tracing its history and development. It contains detailed descriptions of all major theoretical models and experimental results to date and discusses potential future developments. It concludes by outlining the challenges currently faced by researchers in the field. This book will be a useful reference for researchers and students as well as an accessible introduction for those new to the field.

Theoretical and Experimental DNA Computation Martyn Amos, 2005-10-17 DNA computation has emerged in the last ten years as an exciting new search field at the intersection of some would say frontiers of computer science, biology, engineering, and mathematics. Although anticipated by Feynman as long ago as the 1950s, the notion of performing computations at a molecular level was only realized in 1994 with Adleman's seminal work on computing with DNA. Since then, the field has blossomed rapidly with significant theoretical and experimental results being reported regularly. Several books have described various aspects of DNA computation but this is to the author's best knowledge the first to bring together descriptions of both theoretical and experimental results. The target audience is intentionally broad, including students as well as experienced researchers. We expect that users of the book will have some background in either computer science, mathematics, engineering, or the life sciences. The intention is that this book be used as a tutorial guide for newcomers to the field as well as a reference text for people already working in this fascinating area. To this end, we include two self-contained tutorial chapters, 1 and 2, which convey only those aspects of computer science and biology that are required to understand the subsequent material.

Algorithms and Theory of Computation Handbook, Volume 2 Mikhail J. Atallah, Marina Blanton, 2009-11-20 *Algorithms and Theory of Computation Handbook* Second Edition Special Topics and Techniques provides an up-to-date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems. Along with updating and revising many of

Fundamentals of Natural Computing Leandro Nunes de Castro, 2006-06-02 Natural computing brings together nature and computing to develop new computational tools for problem solving, to synthesize natural patterns and behaviors in computers, and to potentially design novel types of computers. *Fundamentals of Natural Computing: Basic Concepts, Algorithms, and Applications* presents a wide-ranging survey of novel techniques.

Membrane Computing Gheorghe Paun, 2012-12-06 Like quantum computing or DNA computing, membrane computing is an unconventional model of computation associated with a new computing paradigm. The field of membrane computing was initiated in 1998 by the author of this book; it is a branch of natural computing inspired by the structure and functioning of the living cell and devises distributed, parallel computing models in the form of membrane systems, also called P systems. This book is the first monograph surveying the new field in a systematic and coherent way. It presents the central notions and results, the main classes of P systems, the main results about their computational power, and

efficiency a complete bibliography and a series of open problems and research topics Thus the book is indispensable reading for anybody interested in molecular computing

Natural Computing Yasuhiro Suzuki, Masami Hagiya, Hiroshi Umeo, Andrew Adamatzky, 2008-12-18 This book is the refereed proceedings of the Second International Workshop on Natural Computing IWNC 2007 held in Noyori Conference Hall Nagoya University in December 2007 IWNC aims to bring together computer scientists biologists mathematicians electronic engineers physicists and humanitarians to critically assess present findings in the field and to outline future developments in nature inspired computing

Molecular Modeling and Simulation: An Interdisciplinary Guide Tamar Schlick, 2010-08-03 Very broad overview of the field intended for an interdisciplinary audience Lively discussion of current challenges written in a colloquial style Author is a rising star in this discipline Suitably accessible for beginners and suitably rigorous for experts Features extensive four color illustrations Appendices featuring homework assignments and reading lists complement the material in the main text

Theoretical Aspects of Evolutionary Computing Leila Kallel, Bart Naudts, Alex Rogers, 2013-03-09 During the first week of September 1999 the Second EvoNet Summer School on Theoretical Aspects of Evolutionary Computing was held at the Middelheim campus of the University of Antwerp Belgium Originally intended as a small get together of PhD students interested in the theory of evolutionary computing the summer school grew to become a successful combination of a four day workshop with over twenty researchers in the field and a two day lecture series open to a wider audience This book is based on the lectures and workshop contributions of this summer school Its first part consists of tutorial papers which introduce the reader to a number of important directions in the theory of evolutionary computing The tutorials are at graduate level and assume only a basic background in mathematics and computer science No prior knowledge of evolutionary computing or its theory is necessary The second part of the book consists of technical papers selected from the workshop contributions A number of them build on the material of the tutorials exploring the theory to research level Other technical papers may require a visit to the library

Computation in Living Cells Andrzej Ehrenfeucht, Tero Harju, Ion Petre, David M. Prescott, Grzegorz Rozenberg, 2013-03-09 Natural Computing is concerned with computation that is taking place in Nature The investigation of computations in living cells is one of the central and fastest growing areas of research in this field Gene assembly in ciliates unicellular organisms is a splendid example of such computations and it is fascinating from both the biological and the computational viewpoints As a matter of fact both biology and the science of computation have benefited from the interdisciplinary research on the computational nature of gene assembly this work has helped to clarify important biological aspects of gene assembly yielded novel insights into the nature of computation and broadened our understanding of what computation is about This monograph gives an accessible account of both the biology and the formal analysis of the gene assembly process It can be used as a textbook for either graduate courses or seminars

Swarm Intelligence Christian Blum, Daniel Merkle, 2008-09-24 Swarm intelligence is a modern artificial intelligence discipline that is concerned with the

design of multiagent systems with applications e.g. in timization and in robotics The design paradigm for these systems is fundamentally different from more traditional approaches Instead of a sophisticated controller that governs the global behavior of the system the swarm intelligence principle is based on many unsophisticated entities that cooperate in order to exhibit a desired behavior Inspiration for the design of these systems is taken from the collective behavior of social insects such as ants termites bees and wasps as well as from the behavior of other animals societies such as flocks of birds or schools of fish Colonies of social insects have mesmerized researchers for many years However the principles that govern their behavior remained unknown for a long time Even though the single members of these societies are unsophisticated individuals they are able to achieve complex tasks in cooperation Coordinated behavior emerges from relatively simple actions or interactions between the individuals

Unconventional Computation and Natural Computation Daniela Genova, Jarkko Kari, 2023-05-31 This book constitutes the proceedings of the 20th International Conference on Unconventional Computation and Natural Computation UCNC 2023 held in Jacksonville FL USA in March 13-17 2023 The UCNC conference series covers fundamental research on computation beyond the standard Turing model including computational models and methods inspired by nature and the computational properties of natural processes

Advances in Evolutionary Computing Ashish Ghosh, Shigeyoshi Tsutsui, 2002-11-26 This book provides a collection of forty articles containing new material on both theoretical aspects of Evolutionary Computing EC and demonstrating the usefulness success of it for various kinds of large scale real world problems Around 23 articles deal with various theoretical aspects of EC and 17 articles demonstrate the success of EC methodologies These articles are written by leading experts of the field from different countries all over the world

Evolvable Components Lukas Sekanina, 2012-12-06 At the beginning of the 1990s research started in how to combine soft computing with reconfigurable hardware in a quite unique way One of the methods that was developed has been called evolvable hardware Thanks to evolutionary algorithms researchers have started to evolve electronic circuits routinely A number of interesting circuits with features unreachable by means of conventional techniques have been developed Evolvable hardware is quite popular right now more than fifty research groups are spread out over the world Evolvable hardware has become a part of the curriculum at some universities Evolvable hardware is being commercialized and there are specialized conferences devoted to evolvable hardware On the other hand surprisingly we can feel the lack of a theoretical background and consistent design methodology in the area Furthermore it is quite difficult to implement really innovative and practically successful evolvable systems using contemporary digital reconfigurable technology

Advances in Metaheuristics for Hard Optimization Patrick Siarry, Zbigniew Michalewicz, 2007-12-06 Many advances have recently been made in metaheuristic methods from theory to applications The editors both leading experts in this field have assembled a team of researchers to contribute 21 chapters organized into parts on simulated annealing tabu search ant colony algorithms general purpose studies of evolutionary algorithms applications of evolutionary algorithms and metaheuristics

Data

Mining and Knowledge Discovery with Evolutionary Algorithms Alex A. Freitas, 2013-11-11 This book addresses the integration of two areas of computer science namely data mining and evolutionary algorithms Both these areas have become increasingly popular in the last few years and their integration is currently an area of active research In essence data mining consists of extracting valid comprehensible and interesting knowledge from data Data mining is actually an interdisciplinary field since there are many kinds of methods that can be used to extract knowledge from data Arguably data mining mainly uses methods from machine learning a branch of artificial intelligence and statistics including statistical pattern recognition Our discussion of data mining and evolutionary algorithms is primarily based on machine learning concepts and principles In particular in this book we emphasize the importance of discovering comprehensible interesting knowledge which the user can potentially use to make intelligent decisions In a nutshell the motivation for applying evolutionary algorithms to data mining is that evolutionary algorithms are robust search methods which perform a global search in the space of candidate solutions rules or another form of knowledge representation In contrast most rule induction methods perform a local greedy search in the space of candidate rules Intuitively the global search of evolutionary algorithms can discover interesting rules and patterns that would be missed by the greedy search

Quantum Computing Mika Hirvensalo, 2013-03-14 After the first edition of this book was published I received much positive feedback from the readers It was very helpful to have all those comments suggesting improvements and corrections In many cases it was suggested that more aspects on quantum information would be welcome Unfortunately I am afraid that an attempt to cover such a broad area as quantum information theory would make this book too scattered to be helpful for educational purposes On the other hand I admit that some aspects of quantum information should be discussed The first edition already contained the so called No Cloning Theorem In this edition I have added a stronger version of the aforementioned theorem due to R Jozsa a variant which also covers the no deleting principle Moreover in this edition I have added some famous protocols such as quantum teleportation The response to the first edition strongly supports the idea that the main function of this book should be educational and I have not included further aspects of quantum information theory here For further reading I suggest 43 by Josef Gruska and 62 by Michael A Nielsen and Isaac L Chuang Chapter 1 especially Section 1.4 includes the most basic knowledge for the presentation of quantum systems relevant to quantum computation The basic properties of quantum information are introduced in Chapter 2 This chapter also includes interesting protocols quantum teleportation and superdense coding

Advances in Computational Intelligence Hans-Paul Schwefel, Ingo Wegener, K.D. Weinert, 2013-03-09 The 30 coherently written chapters by leading researchers presented in this anthology are devoted to basic results achieved in computational intelligence since 1997 The book provides complete coverage of the core issues in the field especially in fuzzy logic and control as well as for evolutionary optimization algorithms including genetic programming in a comprehensive and systematic way Theoretical and methodological investigations are complemented by prototypic applications for design and

management tasks in electrical engineering mechanical engineering and chemical engineering This book will become a valuable source of reference for researchers active in computational intelligence Advanced students and professionals interested in learning about and applying advanced techniques of computational intelligence will appreciate the book as a useful guide enhanced by numerous examples and applications in a variety of fields Unconventional Computation and Natural Computation Cristian S. Calude, Michael J. Dinneen, 2015-08-07 This book constitutes the refereed proceedings of the 14th International Conference on Unconventional Computation and Natural Computation UCNC 2015 held in Auckland New Zealand in August September 2015 The 16 revised full papers were carefully reviewed and selected from 38 submissions The papers cover a wide range of topics including among others molecular DNA computing quantum computing optical computing chaos computing physarum computing computation in hyperbolic spaces collision based computing cellular automata neural computation evolutionary computation swarm intelligence nature inspired algorithms artificial immune systems artificial life membrane computing amorphous computing computational systems biology genetic networks protein protein networks transport networks synthetic biology cellular in vivo computing and computations beyond the Turing model and philosophical aspects of computing **Algorithmic Aspects of Bioinformatics** Hans-Joachim Böckenhauer, Dirk Bongartz, 2007-06-06 Advances in bioinformatics and systems biology require improved computational methods for analyzing data while progress in molecular biology is in turn influencing the development of computer science methods This book introduces some key problems in bioinformatics discusses the models used to formally describe these problems and analyzes the algorithmic approaches used to solve them After introducing the basics of molecular biology and algorithmics Part I explains string algorithms and alignments Part II details the field of physical mapping and DNA sequencing and Part III examines the application of algorithmics to the analysis of biological data Exciting application examples include predicting the spatial structure of proteins and computing haplotypes from genotype data This book describes topics in detail and presents formal models in a mathematically precise yet intuitive manner with many figures and chapter summaries detailed derivations and examples It is well suited as an introduction into the field of bioinformatics and will benefit students and lecturers in bioinformatics and algorithmics while also offering practitioners an update on current research topics

Multiobjective Problem Solving from Nature Joshua Knowles, David Corne, Kalyanmoy Deb, 2008-01-28 This text examines how multiobjective evolutionary algorithms and related techniques can be used to solve problems particularly in the disciplines of science and engineering Contributions by leading researchers show how the concept of multiobjective optimization can be used to reformulate and resolve problems in areas such as constrained optimization co evolution classification inverse modeling and design

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