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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 **Computation in Living Cells**

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Computation in Living Cells Andrzej Ehrenfeucht, Tero Harju, Ion Petre, 2014-01-15 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 *DNA Computing Models* Zoya Ignatova, Israel Martínez-Pérez, Karl-Heinz Zimmermann, 2008-06-11 Sir Francis Crick would undoubtedly be at the front of the line ordering this fascinating book Being one of the discoverers of DNA he would be amazed at how his work has been applied to mankind's most important invention the computer In this excellent text the reader is given a comprehensive introduction to the field of DNA computing The book emphasizes computational methods to tackle central problems of DNA computing such as controlling living cells building patterns and generating nanomachines It also includes laboratory scale human operated models of computation as well as a description of the first experiment of DNA computation conducted by Adleman in 1994 DNA Computing Max H. Garzon, Hao Yan, 2008-02-09 Biomolecular DNA computing is now well established as an interdisciplinary field where chemistry computer science molecular biology physics and mathematics come together with the common purpose of fundamental scientific understanding of biology and chemistry and its applications This international meeting has been the premier forum where scientists with different backgrounds and a common focus meet to present their latest results and entertain visions of the

future In this tradition about 100 participants converged in Memphis Tennessee to hold the 13th International Meeting on DNA Computing during June 4 8 2007 under the auspices of the International Society for Nanoscale Science Computation and Engineering ISNSCE and The University of Memphis The call for papers encouraged submissions of original recent and promising experimental and theoretical results in the field The Call for Papers elicited some 62 submissions almost perfectly balanced among the major theoretical and experimental categories It is evidence of how well the interdisciplinary nature of the conference has truly matured that the major criterion of quality agreed upon in advance by the Program Committee PC produced a nearly balanced program as well across the two major categories full papers and talks with an abstract only The program with the greatest perceived impact consisted of 24 papers for plenary oral talks in addition 15 full paper posters and 10 poster abstracts were accepted of which 5 authors were invited to give five short demos in a new submission category this year The conference program retained the structure now customary for this meeting

DNA Computing Alessandra Carbone, 2006-05-15 the 11th International Meeting on DNA Computing was held June 6 9 2005 at the University of Western Ontario in London Ontario Canada

Current Trends in Theoretical Computer Science Gheorghe P?un, Grzegorz Rozenberg, Arto Salomaa, 2004 contents vol 1 Algorithms Computational Complexity Distributed Computing Natural Computing

Theory Is Forever Juhani Karhumäki, Hermann Maurer, Gheorghe Paun, Grzegorz Rozenberg, 2004-06-29 This commemorative book celebrates the 70th birthday of Arto Kustaa Salomaa one of the most influential researchers in theoretical computer science The 24 invited papers by leading researchers in the area address a broad variety of topics in theoretical computer science and impressively reflect the breadth and the depth of Arto Salomaa s scientific work

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

DNA Computing Claudio Ferretti, Giancarlo Mauri, Claudio Zandron, 2005-06-13 The meeting took place at the University of Milano Bicocca Milan Italy from June 7 to June 10 2004 and it was organized by the University of Milano Bicocca and the Department of Informatics of the University of Milano Bicocca

Biomolecular Computation for Bionanotechnology Jian-Qin Liu, Katsunori Shimohara, 2007 The drive toward non silicon computing is underway and this first of its kind guide to molecular computation gives researchers a firm grasp of the technologies biochemical details and theoretical models at the cutting edge It explores advances in molecular biology and nanotechnology and illuminates how the convergence of various technologies is propelling computational capacity beyond the limitations of traditional hardware technology and into the realm of moleware

COMPLIFE 2007 Arno Siebes, 2007-09-26 The focus of the symposium was on computational methods for modeling analysis and exploration of all aspects of life sciences ranging from effects on the molecular level to

complex interactions networks Of prime importance for this truly interdisciplinary event is the integration of the three disciplines Computer Science Biology and Chemistry These proceedings contain contributions regarding applications aspects as well as new theoretical developments

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Gene Assembly in Stichotrichous Ciliates Vladimir Rogojin, Åbo akademi (1918-),Turku Centre for Computer
Science,2009 **Science Citation Index** ,1993 Vols for 1964 have guides and journal lists *Cellular Computing* Martyn
Amos,2004-08-05 The completion of the first draft of the human genome has led to an explosion of interest in genetics and
molecular biology The view of the genome as a network of interacting computational components is well established but
researchers are now trying to reverse the analogy by using living organisms to construct logic circuits The potential
applications for such technologies is huge ranging from bio sensors through industrial applications to drug delivery and
diagnostics This book would be the first to deal with the implementation of this technology describing several working
experimental demonstrations using cells as components of logic circuits building toward computers incorporating biological
components in their functioning

The book delves into Computation In Living Cells Gene Assembly In Ciliates. Computation In Living Cells Gene Assembly In Ciliates is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Computation In Living Cells Gene Assembly In Ciliates, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Computation In Living Cells Gene Assembly In Ciliates in Specific Contexts
 - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Computation In Living Cells Gene Assembly In Ciliates.

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