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Introduction to Formal Languages, Automata Theory and Computation Kamala Krithivasan, 2009-09 Introduction to Formal Languages, Automata Theory and Computation presents the theoretical concepts in a concise and clear manner with an in-depth coverage of formal grammar and basic automata types. The book also examines the underlying theory and principles of computation and is highly suitable to the undergraduate courses in computer science and information technology. An overview of the recent trends in the field and applications are introduced at the appropriate places to stimulate the interest of active learners.

DNA Computing Natasa Jonoska, Nadriaan C. Seeman, 2003-08-01 This book constitutes the thoroughly refereed post-proceedings of the 7th International Workshop on DNA Based Computers DNA7 held in Tampa, Florida, USA in June 2001. The 26 revised full papers presented together with 9 poster papers were carefully reviewed and selected from 44 submissions. The papers are organized in topical sections on experimental tools, theoretical tools, probabilistic computational models, computer simulation and sequence design, algorithms, experimental solutions, nano-tech devices, biomimetic tools, new computing models and splicing systems and membranes.

Aspects of Molecular Computing Thomas J. Head, Natasha Jonoska, Gheorghe Păun, 2004-02-20 Molecular computing is a rapidly growing subarea of natural computing. On the one hand, molecular computing is concerned with the use of bio-molecules for the purpose of actual computations while on the other hand it attempts to understand the computational nature of molecular processes going on in living cells. The book presents a unique and authoritative state-of-the-art survey on current research in molecular computing. 30 papers by leading researchers in the area are drawn together on the occasion of the 70th birthday of Tom Head, a pioneer in molecular computing. Among the topics addressed are molecular tiling, DNA self-assembly, splicing systems, DNA based cryptography, DNA word design, gene assembly and membrane computing.

Where Mathematics, Computer Science, Linguistics and Biology Meet Carlos Martín-Vide, V. Mitrana, 2013-03-14 In the last years it was observed an increasing interest of computer scientists in the structure of biological molecules and the way how they can be manipulated in vitro in order to define theoretical models of computation.

based on genetic engineering tools Along the same lines a parallel interest is growing regarding the process of evolution of living organisms Much of the current data for genomes are expressed in the form of maps which are now becoming available and permit the study of the evolution of organisms at the scale of genome for the first time On the other hand there is an active trend nowadays throughout the field of computational biology toward abstracted hierarchical views of biological sequences which is very much in the spirit of computational linguistics In the last decades results and methods in the field of formal language theory that might be applied to the description of biological sequences were pointed out **DNA**

Computing ,2001 Foundations of Software Technology and Theoretical Computer Science Kesav V. Nori,1990 This volume gives the proceedings of the Tenth Conference on Foundations of Software Technology and Theoretical Computer Science These conferences are organized and run by the computer science research community in India and their purpose is to provide a forum for professional interaction between members of this research community and their counterparts in different parts of the world The volume includes four invited papers on reasoning about linear constraints using parametric queries the parallel evaluation of classes of circuits a theory of commonsense visual reasoning natural language processing complexity theory and logic The 26 submitted papers are organized into sections on logic automata and formal languages theory of programming parallel algorithms geometric algorithms concurrency distributed computing and semantics

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