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Bioinformatics

Problem Solving Paradigms

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Smaranda Belciug, Florin Gorunescu



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Bioinformatics Volker Sperschneider, 2008-06-20 What is this book good for Imagine you are a computer scientist working in the bioinformatics area Probably you will be a member of a highly interdisciplinary team consisting of biologists chemists mathematicians computer scientists ranging from programmers to algorithm engineers and eventually people from various fields A major problem within such interdisciplinary teams is always to find some common language and for each member of some discipline to have profound knowledge of what are the notions basic concepts and goals of the other participating disciplines as well as of what they can contribute to the solution of their own problems This does of course not mean that a computer scientist should do the job of the biologist Nevertheless a computer scientist should be able to understand what a biologist deals with On the other hand the biologist should not do the computer scientists job but should know what computer science and algorithm engineering might contribute to the solution of her his problems and also how problems should be stated in order for the computer scientist to understand them This book primarily aims to show the potential that algorithm engineering offers for the solution of core bioinformatics problems **Bioinformatics V.**

Sperschneider, 2008 There are fundamental principles for problem analysis and algorithm design that are continuously used in bioinformatics This book concentrates on a clear presentation of these principles presenting them in a self contained mathematically clear and precise manner and illustrating them with lots of case studies from main fields of bioinformatics e.g. sequencing and mapping string storage and manipulation pattern matching alignment gene identification genome rearrangement structure prediction regulatory networks pseudoknot detection Emphasis is laid on algorithmic pearls of bioinformatics showing that things may get rather simple when taking a proper view into them The book closes with a thorough bibliography ranging from classic research results to very recent findings providing many pointers for future research Overall this volume is ideally suited for a senior undergraduate or graduate course on bioinformatics with a strong focus on its mathematical and computer science background This book highlights basic paradigms of problem analysis and algorithm design in the context of core bioinformatics problems Mathematically demanding themes are put across to the reader by properly chosen representations with the aid of lots of illustrations Prof Dr Amitava Datta UWA Perth Australia Written by a theoretical computer scientist the book perfectly complements standard textbooks from the point of view of problem solving methods continuously applied in bioinformatics Prof Dr Georg Fuellen Univ Greifswald Germany

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results to very recent findings providing many pointers for future research Overall this volume is ideally suited for a senior undergraduate or graduate course on bioinformatics with a strong focus on its mathematical and computer science background **BOOK JACKET** **Intelligent Decision Support Systems—A Journey to Smarter Healthcare** Smaranda Belciug, Florin Gorunescu, 2019-03-20 The goal of this book is to provide in a friendly and refreshing manner both theoretical concepts and practical techniques for the important and exciting field of Artificial Intelligence that can be directly applied to real world healthcare problems Healthcare the final frontier Lately it seems like Pandora opened the box and evil was released into the world Fortunately there was one thing left in the box hope In recent decades hope has been increasingly represented by Intelligent Decision Support Systems Their continuing mission to explore strange new diseases to seek out new treatments and drugs and to intelligently manage healthcare resources and patients Hence this book is designed for all those who wish to learn how to explore analyze and find new solutions for the most challenging domain of all time healthcare

Adaptive and Natural Computing Algorithms Marco Tomassini, Alberto Antonioni, Fabio Daolio, Pierre Buesser, 2013-04-12 The book constitutes the refereed proceedings of the 11th International Conference on Adaptive and Natural Computing Algorithms ICANNGA 2013 held in Lausanne Switzerland in April 2013 The 51 revised full papers presented were carefully reviewed and selected from a total of 91 submissions The papers are organized in topical sections on neural networks evolutionary computation soft computing bioinformatics and computational biology advanced computing and applications

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Sumathi, Surekha Paneerselvam, 2010-01-05 Offering a wide range of programming examples implemented in MATLAB Computational Intelligence Paradigms Theory and Applications Using MATLAB presents theoretical concepts and a general framework for computational intelligence CI approaches including artificial neural networks fuzzy systems evolutionary computation genetic algorithms and pr Springer Handbook of Bio-/Neuro-Informatics Nikola Kasabov, 2013-11-30 The Springer Handbook of Bio Neuro Informatics is the first published book in one volume that explains together the basics and the state of the art of two major science disciplines in their interaction and mutual relationship namely information sciences bioinformatics and neuroinformatics Bioinformatics is the area of science which is concerned with the information processes in biology and the development and applications of methods tools and systems for storing and processing of biological

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Whispering the Secrets of Language: An Emotional Journey through **Bioinformatics Problem Solving Paradigms**

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