

Volker Sperschneider

# Bioinformatics

Problem Solving Paradigms

 Springer

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# Bioinformatics Problem Solving Paradigms

**Smaranda Belciug, Florin Gorunescu**



## **Bioinformatics Problem Solving Paradigms:**

*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 scientist's 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

**Bioinformatics** Volker Sperschneider, 2008-08-14 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 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

**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

Nature-Inspired Intelligent Computing Techniques in Bioinformatics Khalid Raza, 2022-10-31 This book encapsulates and occupies recent advances and state of the art applications of nature inspired computing NIC techniques in the field of bioinformatics and computational biology which would aid medical sciences in various clinical applications This edited volume covers fundamental applications scope and future perspectives of NIC techniques in bioinformatics including genomic profiling gene expression data classification DNA computation systems and network biology solving personalized therapy complications antimicrobial resistance in bacterial pathogens and computer aided drug design discovery and therapeutics It also covers the role of NIC techniques in various diseases and disorders including cancer detection and diagnosis breast cancer lung disorder detection disease biomarkers and potential therapeutics identifications

**Drug Discovery and Development** Ramarao Poduri, 2021-02-15 This book describes the processes that are involved in the development of new drugs The authors discuss the history role of natural products and concept of receptor interactions with regard to the initial stages of drug discovery In a single highly readable volume it outlines the basics of pharmacological screening drug target identification and genetics involved in early drug discovery The final chapters introduce readers to stem therapeutics pharmacokinetics pharmacovigilance and toxicological testing Given its scope the book will enable research scholars professionals and young scientists to understand the key fundamentals of drug discovery including stereochemistry pharmacokinetics clinical trials statistics and toxicology

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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 information thus facilitating new knowledge discovery Neuroinformatics 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 information thus facilitating new knowledge discovery The text contains 62 chapters organized in 12 parts 6 of them covering topics from information science and bioinformatics and 6 cover topics from information science and neuroinformatics Each chapter consists of three main sections introduction to the subject area presentation of methods and advanced and future developments The Springer Handbook of Bio Neuroinformatics can be used as both a textbook and as a reference for postgraduate study and advanced research in these areas The target audience includes students scientists and practitioners from the areas of information biological and neurosciences With Forewords by Shun ichi Amari of the Brain Science Institute RIKEN Saitama and Karlheinz Meier of the University of Heidelberg Kirchhoff Institute of Physics and Co Director of the Human Brain Project

*Speed DNA Computing: A Formula Handbook* N.B. Singh, Speed DNA Computing A Formula Handbook is an indispensable guide that condenses the realm of DNA computing into essential formulas for swift comprehension and application Tailored for researchers bioinformaticians and enthusiasts in the field of DNA computing this handbook provides a quick reference for key equations related to DNA based algorithms molecular computations and bioinformatics Covering essential principles with clarity and precision the book facilitates a deeper understanding of this cutting edge intersection of computer science and biology With concise formulas it serves as a valuable resource for those seeking to harness the speed and potential of DNA computing in solving complex computational problems

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