Volker Sperschneider

Bioinformatics

Problem Solving Paradigms





Bioinformatics Problem Solving Paradigms

Shasha Hu

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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 P bably you will be a member of a highly interdisciplinary team consisting of biologists chemists mathematicians computer scientists ranging from p grammers to algorithm engineers and eventually people from various further elds A major problem within such interdisciplinary teams is always to nd 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 one sown problems. This does of course notmeanthatacomputer 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 engin ring o ers 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

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