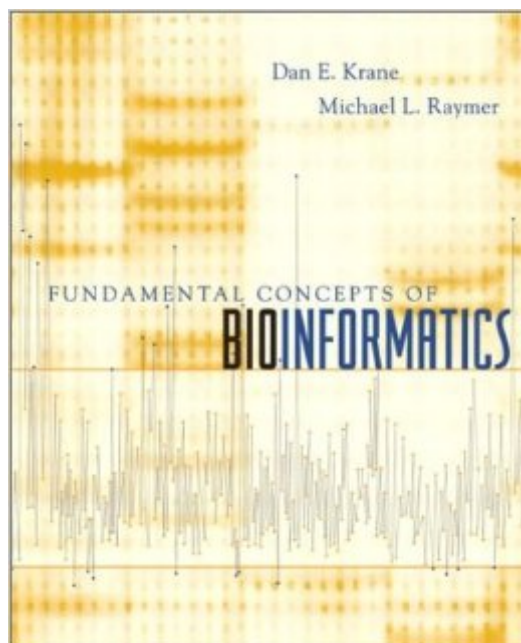# Fundamental Concepts Of Bioinformatics

# Synopsis

Fundamental Concepts of Bioinformatics is the first book co-authored by a biologist and computer scientist that is specifically designed to make bioinformatics accessible and provide readers for more advanced work. Readers learn what programs are available for analyzing data, how to understand the basic algorithms that underlie these programs, what bioinformatic research is like, and other basic concepts. Information flows easily from one topic to the next, with enough detail to support the major concepts without overwhelming readers. Problems at the end of each chapter use real data to help readers apply what they have learned so they know how to critically evaluate results from both a statistical and biological point of view.

# Book Information

Paperback: 320 pages

Publisher: Pearson; 1 edition (September 22, 2002)

Language: English

ISBN-10: 0805346333

ISBN-13: 978-0805346336

Product Dimensions: 7.2 x 0.7 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars  See all reviews (4 customer reviews)

Best Sellers Rank: #800,454 in Books (See Top 100 in Books)   #180 in Books > Computers & Technology > Computer Science > Bioinformatics   #546 in Books > Engineering & Transportation > Engineering > Bioengineering > Biotechnology   #591 in Books > Science & Math > Biological Sciences > Biology > Molecular Biology

# Customer Reviews

Bioinformatics is a burgeoning interdisciplinary field that holds great promise in handling large scale biomedical data by computational approaches. The book "Fundamental Concepts of Bioinformatics" is a very important textbook and reference book for both biology and computer science students and researchers, as well as for those professionals in medical science, and the pharmaceutical industry. It goes with saying that many laboratory approaches are expensive and time consuming, and cannot hope to keep up with the rapid growth of available data, making computational approaches indispensable. While a number of books dealing with bioinformatics, most of them are generally limited in scope, and very few of them provide a comprehensive but easy understandable treatment from both computer science and biomedical principles. This book is unique and is

well-organized, and provides a systematic but straightforward treatment of the various techniques used for bioinformatics. One of the attractive features of the book is the comprehensive coverage of the various types of data use in bioinformatics analysis, followed by computational approaches that are most suited to the particular data type. This book also helps researchers entering bioinformatics. The reader can quickly identify the chapters that are most relevant to their own interest. It could also be used as a textbook for a senior undergraduate or a graduate level bioinformatics course. It is a valuable resource to both students and researchers, no matter whether they perform experimental research or computer science studies. Computer scientists, mathematicians, and statisticians seeking to discover how bioinformatics is related to well-defined paradigms in computer science could also benefit greatly from this book. Professors Michael L.

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