Bioinformatics: A Practical Approach (Chapman Hall/CRC Mathematical and Computational Biology)

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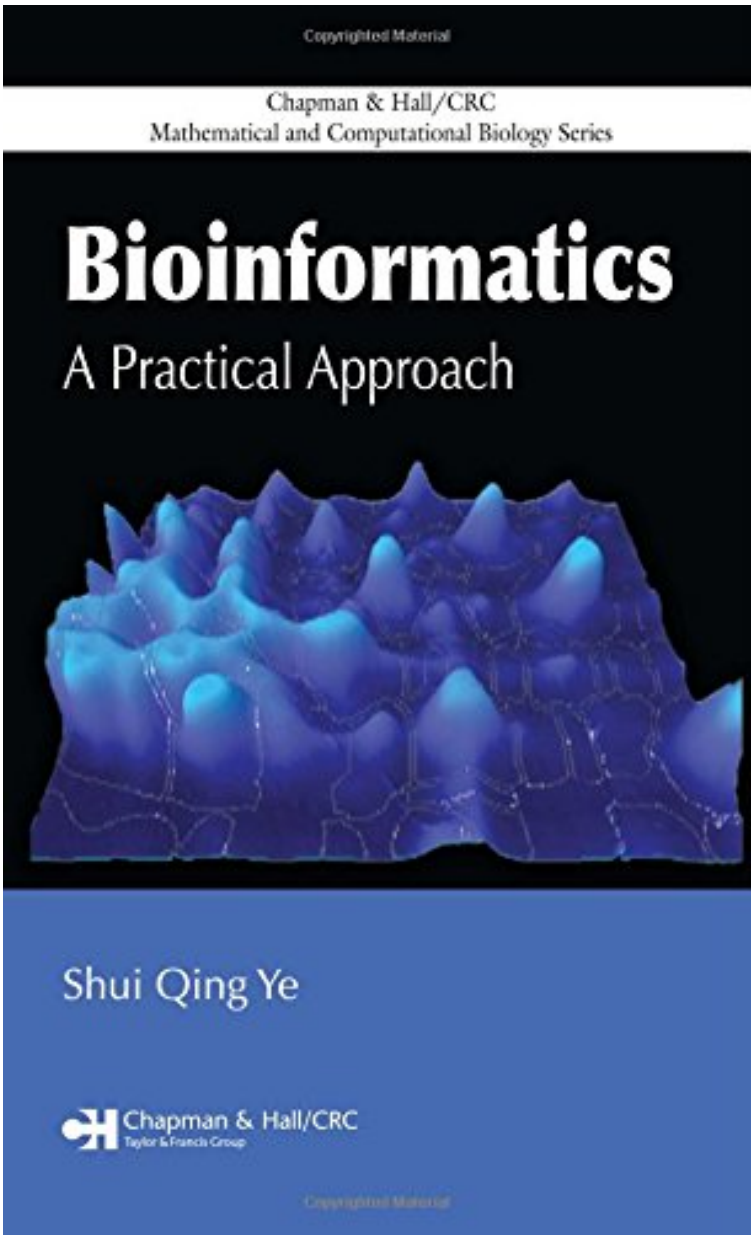

#3189763 in Books Chapman and Hall/CRC 2007-08-20Original language:EnglishPDF # 1 9.50 x 6.25 x 1.50l, 2.27 #File Name: 1584888105648 pages | File size: 53.Mb

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my time, and all praised Bioinformatics: A Practical Approach (Chapman Hall/CRC Mathematical and Computational Biology):

An emerging, ever-evolving branch of science, bioinformatics has paved the way for the explosive growth in the distribution of biological information to a variety of biological databases, including the National Center for Biotechnology Information. For growth to continue in this field, biologists must obtain basic computer skills while computer specialists must possess a fundamental understanding of biological problems. Bridging the gap between biology and computer science, Bioinformatics: A Practical Approach assimilates current bioinformatics knowledge and tools relevant to the omics age into one cohesive, concise, and self-contained volume. Written by expert contributors from around the world, this practical book presents the most state-of-the-art bioinformatics applications. The first part focuses on genome analysis, common DNA analysis tools, phylogenetics analysis, and SNP and haplotype analysis. After chapters on microarray, SAGE, regulation of gene expression, miRNA, and siRNA, the book presents widely applied programs and tools in proteome analysis, protein sequences, protein functions, and functional annotation of proteins in murine models. The last part introduces the programming languages used in biology, website and database design, and the interchange of data between Microsoft Excel and Access.Keeping complex mathematical deductions and jargon to a minimum, this accessible book offers both the theoretical underpinnings and practical applications of bioinformatics.

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