Título: Bioinformatics An Introduction

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Sinopsis

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Bioinformatics is interpreted as the application of information science to biology, in which it plays a fundamental and all-pervasive role. The field continues to develop intensively in both academia and commercially, and is highly interdisciplinary. This broad-ranging and thoroughly updated second edition covers new findings while retaining the successful formula of the original text.

Bioinformatics: An Introduction (2nd Edition) is structured into three parts devoted to Information, Biology, and Applications. Every section of the book has been completely revised for currency, and expanded where relevant, to take account of significant new discoveries and realizations of the importance of key concepts. Furthermore, two new chapters provide instruction about algorithms and knowledge representation. Emphases are placed on the underlying fundamentals and on acquisition of a broad and comprehensive grasp of the field as a whole.

Features:

¦ Provides a solid foundation in, and self-contained introduction to, the field of bioinformatics and its state-of-the-art as it relates to computational biology research

¦ Offers additional chapters on algorithms and knowledge representation, including text mining [NEW]

¦ Imparts a thorough grounding of core concepts, enabling the reader to understand contemporary work within an optimal context

¦ Contains a greatly expanded chapter on interactions and regulatory networks [NEW]

¦ Includes examples, definitions, problems and a comprehensive and useful bibliography

¦ Presents new experimental methods, and serves as a springboard for new research [NEW]

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This significantly improved second edition of a successful textbook is intended to be a complete study companion for the advanced undergraduate or graduate student. It is self-contained, bringing together the multiple disciplines necessary for a profound grasp of the field into a coherent whole, thereby allowing the reader to gain much insight into the state-of-the-art of bioinformatics.

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