Biological Knowledge Discovery Handbook: Preprocessing, Mining and Postprocessing of Biological Data (Wiley Series in Bioinformatics)

Mourad Elloumi, Albert Y. Zomaya

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The first comprehensive overview of preprocessing, mining, and postprocessing of biological data

Molecular biology is undergoing exponential growth in both the volume and complexity of biological data—and knowledge discovery offers the capacity to automate complex search and data analysis tasks. This book presents a vast overview of the most recent developments on techniques and approaches in the field of biological knowledge discovery and data mining (KDD)—providing in-depth fundamental and technical field information on the most important topics encountered.

Written by top experts, *Biological Knowledge Discovery Handbook: Preprocessing, Mining, and Postprocessing of Biological Data* covers the three main phases of knowledge discovery (data preprocessing, data processing—also known as data mining—and data postprocessing) and analyzes both verification systems and discovery systems.

BIOLOGICAL DATA PREPROCESSING

- Part A: Biological Data Management
- Part B: Biological Data Modeling
- Part C: Biological Feature Extraction
- Part D Biological Feature Selection

BIOLOGICAL DATA MINING

- Part E: Regression Analysis of Biological Data
- Part F Biological Data Clustering
- Part G: Biological Data Classification
- Part H: Association Rules Learning from Biological Data
- Part I: Text Mining and Application to Biological Data
- Part J: High-Performance Computing for Biological Data Mining

Combining sound theory with practical applications in molecular biology, *Biological Knowledge Discovery Handbook* is ideal for courses in bioinformatics and biological KDD as well as for practitioners and professional researchers in computer science, life science, and mathematics.

From reader reviews:

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The knowledge that you get from Biological Knowledge Discovery Handbook: Preprocessing, Mining and Postprocessing of Biological Data (Wiley Series in Bioinformatics) is the more deep you excavating the information that hide within the words the more you get thinking about reading it. It doesn't mean that this book is hard to know but Biological Knowledge Discovery Handbook: Preprocessing, Mining and Postprocessing of Biological Data (Wiley Series in Bioinformatics) giving you joy feeling of reading. The author conveys their point in selected way that can be understood simply by anyone who read the item because the author of this guide is well-known enough. This kind of book also makes your current vocabulary increase well. It is therefore easy to understand then can go to you, both in printed or e-book style are available. We propose you for having this particular Biological Knowledge Discovery Handbook: Preprocessing, Mining and Postprocessing of Biological Data (Wiley Series in Bioinformatics) instantly.

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