Biological Knowledge Discovery Handbook: Preprocessing, Mining and Postprocessing of Biological Data

By 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.

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Editorial Review

Review

"This book is a unique resource for practitioners and researchers in computer science, life science, and mathematics." (*Zentralblatt MATH*, 1 June 2015)

About the Author

MOURAD ELLOUMI is a Full Professor in Computer Science at the University of Tunis-El Manar, Tunisia. He is the author/coauthor of more than fifty publications in international journals and conference proceedings and the coeditor, along with Albert Zomaya, of *Algorithms in Computational Molecular Biology: Techniques, Approaches and Applications* (Wiley).

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