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Unsupervised Learning Models for Unlabeled Genomic, Transcriptomic & Proteomic Data Jianing Xi, Zhenhua Yu, 2022-01-05

Biological Data Integration Christine Froidevaux, Marie-Laure Martin-Magniette, Guillem Rigau, 2024-01-04 The study of biological data is constantly undergoing profound changes Firstly the volume of data available has increased considerably due to new high throughput techniques used for experiments Secondly the remarkable progress in both computational and statistical analysis methods and infrastructures has made it possible to process these voluminous data The resulting challenge concerns our ability to integrate these data i e to use their complementary nature effectively in the hope of advancing our knowledge Therefore a major challenge in studying biology today is integrating data for the most exhaustive analysis possible Biological Data Integration deals in a pedagogical way with research work in biological data science examining both computational approaches to data integration and statistical approaches to the integration of omics data

The Analysis of Biological Data Michael Whitlock, Dolph Schluter, 2009 This text emphasizes intuitive understanding rather than an over reliance on formulas The focus is on data and graphical displays rather than the mathematical foundations of statistics and students do not need knowledge of mathematics beyond simple algebra

Radiation Protection In The Health Sciences (With Problem Solutions Manual) (2nd Edition) Marilyn E Noz, Gerald Q Maguire Jr, 2007-04-12 This book takes a very practical approach to radiation protection and presents very readable information for anyone working in the radiation field or with radioactive material Offering information rarely found elsewhere the authors describe in detail both the basic principles and practical implementation recommendations of radiation protection Each chapter includes self assessment review questions and problems with answers provided to help readers master important information Coupled with a teacher s manual this book is highly suitable as an undergraduate text for students preparing for careers as X ray radiation oncology or nuclear medicine technologists It can also be used as a reference for residents in radiology and radiation oncology medical personnel or anyone working with radioactive materials such as those involved in homeland security emergency services or employed at a nuclear power plant

Building Bioinformatics Solutions 2nd Edition Conrad Bessant, Darren Oakley, Ian Shadforth, 2014 This book introduces the reader to all the key concepts and technologies needed to begin developing their own bioinformatics tools The new edition includes more bioinformatics specific content and a new chapter on good software engineering practices to help people working in teams

Biological Knowledge Discovery Handbook Mourad Elloumi, Albert Y. Zomaya, 2015-02-04 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 **Catalog of Copyright**

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Advances in Computational Intelligence Raman Kumar,Uffe Kock Wiil,2019-03-23 This book comprehensively addresses computational intelligence including the theories methodologies and techniques underlying this evolving field as well as its potential uses in various domains across the entire spectrum of the sciences the natural sciences health sciences engineering social sciences and humanities and in various types of business Computational intelligence is rapidly spreading into all kinds of products and services This calls for the adaptation of existing theories methodologies and techniques and the development of wholly new ones to ensure the successful implementation of new intelligent products and services in various domains related to public organizations businesses and everyday life This book gathers contributions from various experts working on different aspects and implementations of computational intelligence which address new developments in theory analytical and numerical simulation and modeling experimentation deployment and case studies results of laboratory or field

operational tests and ongoing advances in computational intelligence It is intended for a broad audience including researchers engineers policymakers industry experts and students offering these readers essential information on and new inspirations regarding the potential of computational intelligence

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