

DATA MINING AND ANALYSIS

Fundamental Concepts and Algorithms

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Data Mining And Analysis Fundamental Concepts And Algorithms

Xiang Xie



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Data Mining and Analysis Mohammed J. Zaki. Wagner Meira Jr,2014 Data Mining 101 Swarnalata Verma,2025-01-07 *Data Mining 101 Core Concepts and Algorithms* provides an in depth exploration of data science and big data methodologies This book is divided into several chapters covering a wide range of topics from inductive mining techniques and software tools to the entire process of mining from discovery to predictive analytics We discuss the decision making capabilities of research methods and how they enhance pattern recognition and data structure representation In turn these characterizations improve the efficiency of decision making algorithms Starting with a general introduction to data science and process mining the book builds a solid foundation for understanding key concepts Our textbook offers a broad yet detailed overview of data mining integrating related machine learning and statistical concepts Topics include data analysis pattern mining clustering classification kernel methods high dimensional data analysis and complex graphs and networks Designed for students researchers and practitioners this book provides comprehensive guidance and a wealth of examples *Data Mining 101 Core Concepts and Algorithms* is your essential resource for mastering the art and science of data mining

Data Mining Technique: Fundamental Concept and Statistical Analysis Dr. Sagar S. Jambhorkar & Mr. Vijay S. Jondhale, *Data Mining and Data Warehousing* is the recent trend in IT field but still it is widely used in various areas This book introduces basic as well as advanced techniques of data mining brief information about data warehousing The book also contains some advanced software tools which are really helpful for students In this book I tried to explain all the techniques and concepts of the data mining data warehousing in very simplified descriptive way which can help to the student for there examination preparation as well as technical improvement **Computational Methods for Next Generation Sequencing**

Data Analysis Ion Mandoiu,Alexander Zelikovsky,2016-09-12 Introduces readers to core algorithmic techniques for next generation sequencing NGS data analysis and discusses a wide range of computational techniques and applications This book provides an in depth survey of some of the recent developments in NGS and discusses mathematical and computational challenges in various application areas of NGS technologies The 18 chapters featured in this book have been authored by bioinformatics experts and represent the latest work in leading labs actively contributing to the fast growing field of NGS The book is divided into four parts Part I focuses on computing and experimental infrastructure for NGS analysis including chapters on cloud computing modular pipelines for metabolic pathway reconstruction pooling strategies for massive viral sequencing and high fidelity sequencing protocols Part II concentrates on analysis of DNA sequencing data covering the

classic scaffolding problem detection of genomic variants including insertions and deletions and analysis of DNA methylation sequencing data Part III is devoted to analysis of RNA seq data This part discusses algorithms and compares software tools for transcriptome assembly along with methods for detection of alternative splicing and tools for transcriptome quantification and differential expression analysis Part IV explores computational tools for NGS applications in microbiomics including a discussion on error correction of NGS reads from viral populations methods for viral quasispecies reconstruction and a survey of state of the art methods and future trends in microbiome analysis Computational Methods for Next Generation Sequencing Data Analysis Reviews computational techniques such as new combinatorial optimization methods data structures high performance computing machine learning and inference algorithms Discusses the mathematical and computational challenges in NGS technologies Covers NGS error correction de novo genome transcriptome assembly variant detection from NGS reads and more This text is a reference for biomedical professionals interested in expanding their knowledge of computational techniques for NGS data analysis The book is also useful for graduate and post graduate students in bioinformatics

Encyclopedia of Bioinformatics and Computational Biology, 2018-08-21 Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases

Machine Learning Algorithms and Concepts Sariya Ansari, 2023-09-13 This book is for machine learning professional aspiring data scientist who wanted to be established themselves as a machine learning engineer or data science professional Machine Learning Algorithms Concepts gives complete idea to begin the phase of machine learning professional This can be referred as a great starting point to switch the career path from existing profession to a machine learning professional The book covers all major algorithms its concept usage and other miscellaneous concepts based on situation which helps to its reader to decide in which situation what to be used This book serves as guide to prepare for interviews exams campus work as well as for industry professional It also

covers basic programming which gives fair idea to its reader to learn how to code for machine learning problem statement even if he is a beginner in coding *Data Mining and Warehousing* Er. Ashima,Er. Anjana,Er. Sukhjinder Kaur,Er. Poonam Rani,2025-10-29 It s with great happiness that I would like to acknowledge a great deal of people that get helped me extremely through the entire difficult challenging but a rewarding and interesting path towards some sort of Edited Book without having their help and support none of this work could have been possible

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