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gene expression
microarray data

aidong zhang



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Advanced Analysis Of Gene Expression Microarray Data Science Engineering And Biology Informatics

**Laura Elnitski, Lonnie R Welch, Helen
Piontkivska**



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Advanced Analysis of Gene Expression Microarray Data Aidong Zhang, 2006 Focuses on the development and application of the latest advanced data mining machine learning and visualization techniques for the identification of interesting significant and novel patterns in gene expression microarray data Describes cutting edge methods for analyzing gene expression microarray data Coverage includes gene based analysis sample based analysis pattern based analysis and visualization tools

Advanced Analysis Of Gene Expression Microarray Data Aidong Zhang, 2006-06-27 This book focuses on the development and application of the latest advanced data mining machine learning and visualization techniques for the identification of interesting significant and novel patterns in gene expression microarray data Biomedical researchers will find this book invaluable for learning the cutting edge methods for analyzing gene expression microarray data Specifically the coverage includes the following state of the art methods Gene based analysis the latest novel clustering algorithms to identify co expressed genes and coherent patterns in gene expression microarray data sets Sample based analysis supervised and unsupervised methods for the reduction of the gene dimensionality to select significant genes A series of approaches to disease classification and discovery are also described Pattern based analysis methods for ascertaining the relationship between subsets of genes and subsets of samples Various novel pattern based clustering algorithms to find the coherent patterns embedded in the sub attribute spaces are discussed Visualization tools various methods for gene expression data visualization The visualization process is intended to transform the gene expression data set from high dimensional space into a more easily understood two or three dimensional space

Analysis of Biological Data Sanghamitra Bandyopadhyay, 2007 Bioinformatics a field devoted to the interpretation and analysis of biological data using computational techniques has evolved tremendously in recent years due to the explosive growth of biological information generated by the scientific community Soft computing is a consortium of methodologies that work synergistically and provides in one form or another flexible information processing capabilities for handling real life ambiguous situations Several research articles dealing with the application of soft computing tools to bioinformatics have been published in the recent past however they are scattered in different journals conference proceedings and technical reports thus causing inconvenience to readers students and researchers This book unique in its nature is aimed at providing a treatise in a unified framework with both theoretical and experimental results describing the basic principles of soft computing and demonstrating the various ways in which they can be used for analyzing biological data in an efficient manner Interesting research articles from eminent scientists around the world are brought together in a systematic way such that the reader will be able to understand the issues and challenges in this domain the existing ways of tackling them recent trends and future directions This book is the first of its kind to bring together two important research areas soft computing and bioinformatics in order to demonstrate how the tools and techniques in the former can be used for efficiently solving several problems in the

latter **Life Science Data Mining** Chung-sheng Li, Stephen Tin Chi Wong, 2006-12-29 This timely book identifies and highlights the latest data mining paradigms to analyze combine integrate model and simulate vast amounts of heterogeneous multi modal multi scale data for emerging real world applications in life science The cutting edge topics presented include bio surveillance disease outbreak detection high throughput bioimaging drug screening predictive toxicology biosensors and the integration of macro scale bio surveillance and environmental data with micro scale biological data for personalized medicine This collection of works from leading researchers in the field offers readers an exceptional start in these areas

Advances In Genomic Sequence Analysis And Pattern Discovery Laura Elnitski, Lonnie R Welch, Helen Piontkivska, 2011-01-19 Mapping the genomic landscapes is one of the most exciting frontiers of science We have the opportunity to reverse engineer the blueprints and the control systems of living organisms Computational tools are key enablers in the deciphering process This book provides an in depth presentation of some of the important computational biology approaches to genomic sequence analysis The first section of the book discusses methods for discovering patterns in DNA and RNA This is followed by the second section that reflects on methods in various ways including performance usage and paradigms Biodata Mining And Visualization: Novel Approaches Ilkka Havukkala, 2010-06-23 There is a lack of an exposition on interdisciplinary and innovative methods of data mining and visualization for biodata This book fills the gap by introducing an interdisciplinary set of the most recent methods and references on novel techniques from artificial intelligence data mining engineering pattern recognition and ontological data mining fields that are applicable to bioinformatics The latest novel approaches are explained in detail their advantages and disadvantages are summarized and pointers to the future development of new applications are given By widening the pool from which biologists and bioinformaticians can adopt methods for biodata mining and visualization computational data mining experts in nonbiological fields are also encouraged to utilize their expertise in order to contribute to the progress of computational biology thus enhancing the collaboration between these two disciplines *Database Technology for Life Sciences and Medicine* Claudia Plant, Christian B[ö]hm, 2010 This book presents innovative approaches from database researchers supporting the challenging process of knowledge discovery in biomedicine Ranging from how to effectively store and organize biomedical data via data quality and case studies to sophisticated data mining methods this book provides the state of the art of database technology for life sciences and medicine A valuable source of information for experts in life sciences who want to be updated about the possibilities of database technology in their field this volume will also be inspiring for students and researchers in informatics who are keen to contribute to this emerging field of interdisciplinary research **Machine Learning Approaches to Bioinformatics** Zheng Rong Yang, 2010 This book covers a wide range of subjects in applying machine learning approaches for bioinformatics projects The book succeeds on two key unique features First it introduces the most widely used machine learning approaches in bioinformatics and discusses with evaluations from real case studies how they are used in individual

bioinformatics projects Second it introduces state of the art bioinformatics research methods Furthermore the book includes R codes and example data sets to help readers develop their own bioinformatics research skills The theoretical parts and the practical parts are well integrated for readers to follow the existing procedures in individual research Unlike most of the bioinformatics textbooks on the market the content coverage is not limited to just one subject A broad spectrum of relevant topics in bioinformatics including systematic data mining and computational systems biology researches are brought together in this book thereby offering an efficient and convenient platform for undergraduate graduate teaching An essential textbook for both final year undergraduates and graduate students in universities as well as a comprehensive handbook for new researchers this book will also serve as a practical guide for software development in relevant bioinformatics projects

Biological Data Mining And Its Applications In Healthcare Xiaoli Li, See-kiong Ng, Jason T L Wang, 2013-11-28 Biologists are stepping up their efforts in understanding the biological processes that underlie disease pathways in the clinical contexts This has resulted in a flood of biological and clinical data from genomic and protein sequences DNA microarrays protein interactions biomedical images to disease pathways and electronic health records To exploit these data for discovering new knowledge that can be translated into clinical applications there are fundamental data analysis difficulties that have to be overcome Practical issues such as handling noisy and incomplete data processing compute intensive tasks and integrating various data sources are new challenges faced by biologists in the post genome era This book will cover the fundamentals of state of the art data mining techniques which have been designed to handle such challenging data analysis problems and demonstrate with real applications how biologists and clinical scientists can employ data mining to enable them to make meaningful observations and discoveries from a wide array of heterogeneous data from molecular biology to pharmaceutical and clinical domains

Protein Interaction Networks Aidong Zhang, 2009-04-06 The first full survey of statistical topological data mining and ontology based methods for analyzing protein protein interaction networks

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