



Data Mining in Biomedicine *Using Ontologies*

Mihail Popescu • Dong Xu | editors

Data Mining In Biomedicine Using Ontologies Artech House Series Bioinformatics Biomedical Imaging

Andreas Holzinger, Igor Jurisica



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Data Mining in Biomedicine Using Ontologies (Artech House Series Bioinformatics & Biomedical Imaging). Mihail Popescu, **Data Mining in Biomedicine Using Ontologies (Artech House Series Bioinformatics & Biomedical Imaging).** Mihail Popescu, *Data Mining in Biomedicine Using Ontologies* Mihail Popescu, Dong Xu, 2009 Presently a growing number of ontologies are being built and used for annotating data in biomedical research Thanks to the tremendous amount of data being generated ontologies are now being used in numerous ways including connecting different databases refining search capabilities interpreting experimental clinical data and inferring knowledge This cutting edge resource introduces you to latest developments in bio ontologies The book provides you with the theoretical foundations and examples of ontologies as well as applications of ontologies in biomedicine from molecular levels to clinical levels You also find details on technological infrastructure for bio ontologies This comprehensive one stop volume presents a wide range of practical bio ontology information offering you detailed guidance in the clustering of biological data protein classification gene and pathway prediction and text mining More than 160 illustrations support key topics throughout the book Cell-based Biosensors Ping Wang, Qingjun Liu, 2010 Written by recognized experts the field this leading edge resource is the first book to systematically introduce the concept technology and development of cell based biosensors You find details on the latest cell based biosensor models and novel micro structure biosensor techniques Taking an interdisciplinary approach this unique volume presents the latest innovative applications of cell based biosensors in a variety of biomedical fields The book also explores future trends of cell based biosensors including integrated chips nanotechnology and microfluidics Over 140 illustrations help clarify key topics throughout the book **The British National Bibliography** Arthur James Wells, 2009

Medical Informatics Hsinchun Chen, Sherrilynne S. Fuller, Carol Friedman, William Hersh, 2006-07-19 Knowledge Management and Data Mining in Biomedicine covers the basic foundations of the area while extending the foundational material to include the recent leading edge research in the field The newer concepts techniques and practices of biomedical knowledge management and data mining are introduced and examined in detail It is the research and applications in these areas that are raising the technical horizons and expanding the utility of informatics to an increasing number of biomedical professionals and researchers These concepts and techniques are illustrated with detailed case studies Data Mining in Biomedical Imaging, Signaling, and Systems Sumeet Dua, Rajendra Acharya U, 2016-04-19 This comprehensive volume demonstrates the broad scope of uses for data mining and includes detailed strategies and methodologies for analyzing data from biomedical images signals and systems Written by experts in the field it presents data mining techniques in the context of various important clinical issues including diagnosis and grading of depression identification and classification of arrhythmia and ischemia and description of classification paradigms for mammograms The book provides ample information and techniques to benefit researchers practitioners and educators of biomedical science and engineering *Text Mining for*

Biology and Biomedicine Sophia Ananiadou, 2006 Here s the first focused book that puts the full range of cutting edge biological text mining techniques and tools at your command This comprehensive volume describes the methods of natural language processing NLP and their applications in the biological domain and spells out in detail the various lexical terminological and ontological resources now at your disposal and how best to utilize them *Biomedical Data Mining for Information Retrieval* Sujata Dash, Subhendu Kumar Pani, S. Balamurugan, Ajith Abraham, 2021-08-06 BIOMEDICAL DATA MINING FOR INFORMATION RETRIEVAL This book not only emphasizes traditional computational techniques but discusses data mining biomedical image processing information retrieval with broad coverage of basic scientific applications Biomedical Data Mining for Information Retrieval comprehensively covers the topic of mining biomedical text images and visual features towards information retrieval Biomedical and health informatics is an emerging field of research at the intersection of information science computer science and healthcare and brings tremendous opportunities and challenges due to easily available and abundant biomedical data for further analysis The aim of healthcare informatics is to ensure the high quality efficient healthcare better treatment and quality of life by analyzing biomedical and healthcare data including patient s data electronic health records EHRs and lifestyle Previously it was a common requirement to have a domain expert to develop a model for biomedical or healthcare however recent advancements in representation learning algorithms allows us to automatically to develop the model Biomedical image mining a novel research area due to the vast amount of available biomedical images increasingly generates and stores digitally These images are mainly in the form of computed tomography CT X ray nuclear medicine imaging PET SPECT magnetic resonance imaging MRI and ultrasound Patients biomedical images can be digitized using data mining techniques and may help in answering several important and critical questions relating to healthcare Image mining in medicine can help to uncover new relationships between data and reveal new useful information that can be helpful for doctors in treating their patients Audience Researchers in various fields including computer science medical informatics healthcare IOT artificial intelligence machine learning image processing clinical big data analytics

Interactive Knowledge Discovery and Data Mining in Biomedical Informatics Andreas Holzinger, Igor Jurisica, 2014-06-17 One of the grand challenges in our digital world are the large complex and often weakly structured data sets and massive amounts of unstructured information This big data challenge is most evident in biomedical informatics the trend towards precision medicine has resulted in an explosion in the amount of generated biomedical data sets Despite the fact that human experts are very good at pattern recognition in dimensions of 3 most of the data is high dimensional which makes manual analysis often impossible and neither the medical doctor nor the biomedical researcher can memorize all these facts A synergistic combination of methodologies and approaches of two fields offer ideal conditions towards unraveling these problems Human Computer Interaction HCI and Knowledge Discovery Data Mining KDD with the goal of supporting human capabilities with machine learning pp This state of the art survey is an output of the HCI KDD expert network and features 19

carefully selected and reviewed papers related to seven hot and promising research areas Area 1 Data Integration Data Pre processing and Data Mapping Area 2 Data Mining Algorithms Area 3 Graph based Data Mining Area 4 Entropy Based Data Mining Area 5 Topological Data Mining Area 6 Data Visualization and Area 7 Privacy Data Protection Safety and Security

Data Mining in Biomedicine Panos M. Pardalos,Vladimir L. Boginski,Alkis Vazacopoulos,2008-12-10 This volume presents an extensive collection of contributions covering aspects of the exciting and important research field of data mining techniques in biomedicine Coverage includes new approaches for the analysis of biomedical data applications of data mining techniques to real life problems in medical practice comprehensive reviews of recent trends in the field The book addresses incorporation of data mining in fundamental areas of biomedical research genomics proteomics protein characterization and neuroscience

Mining Biomedical Text, Images and Visual Features for Information Retrieval Sujata Dash,Subhendu Kumar Pani,Wellington Pinheiro Dos Santos,Jake Y Chen,2024-11-15 Mining Biomedical Text Images and Visual Features for Information Retrieval provides the reader with a broad coverage of the concepts themes and instrumentalities of the important and evolving area of biomedical text images and visual features towards information retrieval It aims to encourage an even wider adoption of IR methods for assisting in problem solving and to stimulate research that may lead to additional innovations in this area of research The book discusses topics such as internet of things for health informatics data privacy smart healthcare medical image processing 3D medical images evolutionary computing deep learning medical ontology linguistic indexing lexical analysis and domain specific semantic categories in biomedical applications It is a valuable resource for researchers and graduate students who are interested to learn more about data mining techniques to improve their research work Describes many biomedical imaging techniques to detect diseases at the cellular level i e image segmentation classification or image indexing using a variety of computational intelligence and image processing approaches Discusses how data mining techniques can be used for noise diminution and filtering MRI EEG MEG fMRI fNIRS and PET Images Presents text mining techniques used for clinical documents in the areas of medicine and Biomedical NLP Systems

Data Mining for Bioinformatics Applications He Zengyou,2015-06-09 Data Mining for Bioinformatics Applications provides valuable information on the data mining methods have been widely used for solving real bioinformatics problems including problem definition data collection data preprocessing modeling and validation The text uses an example based method to illustrate how to apply data mining techniques to solve real bioinformatics problems containing 45 bioinformatics problems that have been investigated in recent research For each example the entire data mining process is described ranging from data preprocessing to modeling and result validation Provides valuable information on the data mining methods have been widely used for solving real bioinformatics problems Uses an example based method to illustrate how to apply data mining techniques to solve real bioinformatics problems Contains 45 bioinformatics problems that have been investigated in recent research *Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes* ,2015 Anatomy

Ontologies for Bioinformatics Albert Burger, Duncan Davidson, Richard Baldock, 2007-12-20 This book provides a timely and first of its kind collection of papers on anatomy ontologies It is interdisciplinary in its approach bringing together the relevant expertise from computing and biomedical studies The book aims to provide readers with a comprehensive understanding of the foundations of anatomical ontologies and the state of the art in terms of existing tools and applications It also highlights challenges that remain today

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

Recent Contributions to Bioinformatics and Biomedical Sciences and Engineering Sotir Sotirov, Tania Pencheva, Janusz Kacprzyk, Krassimir T. Atanassov, Evdokia Sotirova, Simeon Ribagin, 2023-06-01 This book presents a collection of high quality research papers presented at the Second International Symposium on Bioinformatics and Biomedicine BioInfoMed 2022 It offers a comprehensive look into some of the fastest growing fields of science such as biomedicine bioinformatics artificial intelligence and mathematical modeling The different chapters of the work include both practical solutions and strictly scientific considerations expanding knowledge about the future bioinformatics and biomedical engineering challenges We believe that the presented works will have a great impact not only on the development and the application of new methods for modeling decision making and data mining in healthcare and biomedicine but also it will provide a source of inspiration for researchers who can implement the proposed methods into their practice and scientific studies

Data Mining in Clinical Medicine Carlos Fernández Llatas, Juan Miguel García-Gómez, 2014-11-24 This volume compiles a set of Data Mining techniques and new applications in real biomedical scenarios Chapters focus on innovative data mining techniques biomedical datasets and streams analysis and real applications Written in the highly successful Methods in Molecular Biology series format chapters are thought to show to Medical Doctors and Engineers the new trends and techniques that are being applied to Clinical Medicine with the arrival of new Information and Communication technologies Authoritative and practical Data Mining in Clinical Medicine seeks to aid scientists with new approaches and trends in the field

Biocomputation and Biomedical Informatics: Case Studies and

Applications Lazakidou, Athina A.,2009-11-30 This book provides a compendium of terms definitions and explanations of concepts processes and acronyms Provided by publisher

Predictive Modeling in Biomedical Data Mining and Analysis Sudipta Roy,Lalit Mohan Goyal,Valentina Emilia Balas,Basant Agarwal,Mamta Mittal,2022-08-28 Predictive Modeling in Biomedical Data Mining and Analysis presents major technical advancements and research findings in the field of machine learning in biomedical image and data analysis The book examines recent technologies and studies in preclinical and clinical practice in computational intelligence The authors present leading edge research in the science of processing analyzing and utilizing all aspects of advanced computational machine learning in biomedical image and data analysis As the application of machine learning is spreading to a variety of biomedical problems including automatic image segmentation image classification disease classification fundamental biological processes and treatments this is an ideal reference Machine Learning techniques are used as predictive models for many types of applications including biomedical applications These techniques have shown impressive results across a variety of domains in biomedical engineering research Biology and medicine are data rich disciplines but the data are complex and often ill understood hence the need for new resources and information Includes predictive modeling algorithms for both Supervised Learning and Unsupervised Learning for medical diagnosis data summarization and pattern identification Offers complete coverage of predictive modeling in biomedical applications including data visualization information retrieval data mining image pre processing and segmentation mathematical models and deep neural networks Provides readers with leading edge coverage of biomedical data processing including high dimension data data reduction clinical decision making deep machine learning in large data sets multimodal multi task and transfer learning as well as machine learning with Internet of Biomedical Things applications

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Data Mining In Biomedicine Using Ontologies Artech House Series Bioinformatics Biomedical Imaging**

In a global inundated with displays and the cacophony of instant communication, the profound energy and mental resonance of verbal beauty frequently diminish in to obscurity, eclipsed by the constant assault of noise and distractions. Yet, situated within the musical pages of **Data Mining In Biomedicine Using Ontologies Artech House Series Bioinformatics Biomedical Imaging**, a charming perform of fictional beauty that impulses with natural thoughts, lies an unforgettable trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that exciting opus books viewers on a psychological odyssey, delicately exposing the latent potential and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect its charming publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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