Ebook free Data mining for healthcare management (2023)

Process Mining in Healthcare Interactive Process Mining in Healthcare Data Mining and Analytics in Healthcare Management Artificial Intelligence and Data Mining in Healthcare Data Mining and Medical Knowledge Management: Cases and Applications Mine Health and Safety Management Big Data Management and the Internet of Things for Improved Health Systems Diagnostic Applications of Health Intelligence and Surveillance Systems Text Mining Techniques for Healthcare Provider Quality Determination: Methods for Rank Comparisons Data Analytics in Medicine: Concepts, Methodologies, Tools, and Applications Data Mining in Medical and Biological Research Biomedical Data Mining for Information Retrieval Medical Informatics Visualizing Health Care Statistics: A Data-Mining Approach Medical Data Mining and Knowledge Discovery Mining Safety and Health Research at NIOSH Data Mining Healthcare and Clinical Databases Biological Data Mining and Its Applications in Healthcare Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes Cases on Health Outcomes and Clinical Data Mining: Studies and Frameworks Mine Safety and Health Medical Geology in Mining Biomedical Engineering Systems and Technologies The Federal Mine Health Program in Process Mining in Action The Federal Coal Mine Health Program Healthcare Data Analytics Clinical Data Mining in an Allied Health Organisation Clinical Data Mining for Physician Decision Making and Investigating Health Outcomes: Methods for Prediction and Analysis Mining Health Risk Assessments for Richer ROI and Results The History of Miners' Diseases Clinical Text Mining Doctors of the Mines Biological Data Mining and Its Applications in Healthcare Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning Informational Report - Mine Safety and Health Administration One Hundred Years of Federal Mining Safety and Health Research Text Mining of Web-Based Medical Content Transforming Health Care Mine Safety & Health

Process Mining in Healthcare

2015-03-12

what are the possibilities for process mining in hospitals in this book the authors provide an answer to this question by presenting a healthcare reference model that outlines all the different classes of data that are potentially available for process mining in healthcare and the relationships between them subsequently based on this reference model they explain the application opportunities for process mining in this domain and discuss the various kinds of analyses that can be performed they focus on organizational healthcare processes rather than medical treatment processes the combination of event data and process mining techniques allows them to analyze the operational processes within a hospital based on facts thus providing a solid basis for managing and improving processes within hospitals to this end they also explicitly elaborate on data quality issues that are relevant for the data aspects of the healthcare reference model this book mainly targets advanced professionals involved in areas related to business process management business intelligence data mining and business process redesign for healthcare systems as well as graduate students specializing in healthcare information systems and process analysis

Interactive Process Mining in Healthcare

2020-10-28

this book provides a practically applicable guide to the methodologies and technologies for the application of interactive process mining paradigm case studies are presented where this paradigm has been successfully applied in emergency medicine surgery processes human behavior modelling strokes and outpatients services enabling the reader to develop a deep understanding of how to apply process mining technologies in healthcare to support them in inferring new knowledge from past actions and providing accurate and personalized knowledge to improve their future clinical decision making interactive process mining in healthcare comprehensively covers how machine learning algorithms can be utilized to create real scientific evidence to improve daily healthcare protocols and is a valuable resource for a variety of health professionals seeking to develop new methods to improve their clinical decision making

Data Mining and Analytics in Healthcare Management

2023-04-20

this book presents data mining methods in the field of healthcare management in a practical way healthcare quality and disease prevention are essential in today s world healthcare management faces a number of challenges e g reducing patient growth through disease prevention stopping or slowing disease progression and reducing healthcare costs while improving quality of care the book provides an overview of current healthcare management problems and highlights how analytics and knowledge management have been used to better cope with them it then demonstrates how to use descriptive and predictive analytics tools to help address these challenges in closing it presents applications of software solutions in the context of healthcare management

given its scope the book will appeal to a broad readership from researchers and students in the operations research and management field to practitioners such as data analysts and decision makers who work in the healthcare sector

Artificial Intelligence and Data Mining in Healthcare

2021-01-25

this book presents recent work on healthcare management and engineering using artificial intelligence and data mining techniques specific topics covered in the contributed chapters include predictive mining decision support capacity management patient flow optimization image compression data clustering and feature selection the content will be valuable for researchers and postgraduate students in computer science information technology industrial engineering and applied mathematics

Data Mining and Medical Knowledge Management: Cases and Applications

2009-02-28

the healthcare industry produces a constant flow of data creating a need for deep analysis of databases through data mining tools and techniques resulting in expanded medical research diagnosis and treatment data mining and medical knowledge management cases and applications presents case studies on applications of various modern data mining methods in several important areas of medicine covering classical data mining methods elaborated approaches related to mining in electroencephalogram and electrocardiogram data and methods related to mining in genetic data a premier resource for those involved in data mining and medical knowledge management this book tackles ethical issues related to cost sensitive learning in medicine and produces theoretical contributions concerning general problems of data information knowledge and ontologies

Mine Health and Safety Management

2001

this book focuses on instilling a safety culture and fostering the ability to recognize and manage health and safety responsibilities and requirements it details effective and safety management systems and concentrates on safety and health hazard anticipation identification evaluation and control

Big Data Management and the Internet of Things for Improved Health Systems

2018-01-19

because of the increased access to high speed internet and smart phones many patients have started to use mobile applications to manage various health needs these devices and mobile apps are now increasingly used and integrated with telemedicine and telehealth via the medical internet of things iot big data management and the internet of things for improved health systems is a critical scholarly resource that examines the digital transformation of healthcare featuring coverage on a broad range of topics

such as brain computer interface data reduction techniques and risk factors this book is geared towards academicians practitioners researchers and students seeking research on health and well being data

Diagnostic Applications of Health Intelligence and Surveillance Systems

2021-01-15

health surveillance and intelligence play an important role in modern health systems as more data must be collected and analyzed it is crucial that this data is interpreted and analyzed effectively and efficiently in order to assist with diagnoses and predictions diagnostic applications of health intelligence and surveillance systems is an essential reference book that examines recent studies that are driving artificial intelligence in the health sector and helping practitioners to predict and diagnose diseases chapters within the book focus on health intelligence and how health surveillance data can be made useful and meaningful covering topics that include computational intelligence data analytics mobile health and neural networks this book is crucial for healthcare practitioners it specialists academicians researchers and students

Text Mining Techniques for Healthcare Provider Quality Determination: Methods for Rank Comparisons

2009-08-31

the quest for quality in healthcare has led to attempts to develop models to determine which providers have the highest quality in healthcare with the best outcomes for patients text mining techniques for healthcare provider quality determination methods for rank comparisons discusses the general practice of defining a patient severity index in order to make risk adjustments to compare patient outcomes across multiple providers with the intent of ranking the providers in terms of quality this innovative reference source valuable to medical practitioners researchers and academicians brings together research from across the globe focusing on how severity indices are generally defined when determining the best outcome for patient

Data Analytics in Medicine: Concepts, Methodologies, Tools, and Applications

2019-12-06

advancements in data science have created opportunities to sort manage and analyze large amounts of data more effectively and efficiently applying these new technologies to the healthcare industry which has vast quantities of patient and medical data and is increasingly becoming more data reliant is crucial for refining medical practices and patient care data analytics in medicine concepts methodologies tools and applications is a vital reference source that examines practical applications of healthcare analytics for improved patient care resource allocation and medical performance as well as for diagnosing predicting and identifying at risk populations highlighting a range of topics such as data security and privacy health informatics and predictive analytics this multi volume book is ideally designed for doctors hospital administrators nurses medical professionals it specialists

computer engineers information technologists biomedical engineers data processing specialists healthcare practitioners academicians and researchers interested in current research on the connections between data analytics in the field of medicine

Data Mining in Medical and Biological Research

2008-11-01

this book intends to bring together the most recent advances and applications of data mining research in the promising areas of medicine and biology from around the world it consists of seventeen chapters twelve related to medical research and five focused on the biological domain which describe interesting applications motivating progress and worthwhile results we hope that the readers will benefit from this book and consider it as an excellent way to keep pace with the vast and diverse advances of new research efforts

Biomedical Data Mining for Information Retrieval

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

Medical Informatics

2006-07-19

comprehensively presents the foundations and leading application research in medical informatics biomedicine the concepts and

techniques are illustrated with detailed case studies authors are widely recognized professors and researchers in schools of medicine and information systems from the university of arizona university of washington columbia university and oregon health science university related springer title shortliffe medical informatics has sold over 8000 copies the title will be positioned at the upper division and graduate level medical informatics course and a reference work for practitioners in the field

Visualizing Health Care Statistics: A Data-Mining Approach

2020-09-29

visualizing health care statistics a data mining approach is an introductory statistics text that demonstrates how to visualize health care statistics using microsoft excel and r project open source statistical software and hands on examples using real world data in each chapter students are encouraged to apply statistical knowledge to real world health care situations through this approach students develop data gathering and analysis skills all while preparing for the national registered health information technician rhit exam

Medical Data Mining and Knowledge Discovery

2001-01-12

modern medicine generates almost daily huge amounts of heterogeneous data for example medical data may contain spect images signals like ecg clinical information like temperature cholesterol levels etc as well as the physician s interpretation those who deal with such data understand that there is a widening gap between data collection and data comprehension computerized techniques are needed to help humans address this problem this volume is devoted to the relatively young and growing field of medical data mining and knowledge discovery as more and more medical procedures employ imaging as a preferred diagnostic tool there is a need to develop methods for efficient mining in databases of images other significant features are security and confidentiality concerns moreover the physician s interpretation of images signals or other technical data is written in unstructured english which is very difficult to mine this book addresses all these specific features

Mining Safety and Health Research at NIOSH

2007-10-14

the u s mining sector has the highest fatality rate of any industry in the country fortunately advances made over the past three decades in mining technology equipment processes procedures and workforce education and training have significantly improved safety and health the national institute for occupational safety and health niosh mining safety and health research program mining program has played a large role in these improvements an assessment of the relevance and impact of niosh mining program research by a national research council committee reveals that the program makes essential contributions to the enhancement of health and safety in the mining industry to further increase its effectiveness the mining program should proactively identify workplace hazards and establish more challenging and innovative goals toward hazard reduction the ability of the program to

successfully expand its activities however depends on available funding

Data Mining Healthcare and Clinical Databases

2010

every second users produce large amounts of image data from medical and satellite imaging systems image mining techniques that are capable of extracting useful information from image data are becoming increasingly useful especially in medicine and the health sciences biomedical image analysis and mining techniques for improved health outcomes addresses major techniques regarding image processing as a tool for disease identification and diagnosis as well as treatment recommendation highlighting current research intended to advance the medical field this publication is essential for use by researchers advanced level students academicians medical professionals and technology developers an essential addition to the reference material available in the field of medicine this timely publication covers a range of applied research on data mining image processing computational simulation data visualization and image retrieval

Biological Data Mining and Its Applications in Healthcare

2014

because so much data is now becoming readily available to investigate health outcomes it is important to examine just how statistical models are used to do this this book studies health outcomes research using data mining techniques provided by publisher

Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes

2015-11-03

this book discusses a wide range of health related mining issues with particular reference to occupational diseases metal toxicity postural injuries in miners modern fire safety controls noise induced hearing loss prevention and noise mapping mining plays a central role in the development of modern civilization by providing the essential raw materials mining ensures progress safety and comfort of people however this necessary activity comes with several woes the most important of which are occupational health hazards mines act as sources of constant danger and risk to the miners irrespective of the scale of mining such as large scale industrial mining or small scale artisanal mining not only are there accidents but continuous exposure to dust metal toxicity hazardous gases and fumes and loud noises giving rise to a variety of diseases to mine workers the comprehensive coverage of issues and the case studies will make this book an essential reference and critical reading medical geology is a necessary discipline in earth sciences unfortunately not much literature is available on this subject therefore this book is essential for practicing engineers and supervisors in mines health and safety professionals researchers and mining industry students

Cases on Health Outcomes and Clinical Data Mining: Studies and Frameworks

2010-02-28

this book contains the best papers of the first international joint conference on b medical engineering systems and technologies biostec 2008 organized by the institute for systems and technologies of information control and communication insticc technically co sponsored by the ieee engineering in medicine and bi ogy society emb acm sigart and the workflow management coalition wfmc in cooperation with aaai the purpose of the international joint conference on biomedical engineering s tems and technologies is to bring together researchers and practitioners including engineers biologists health professionals and informatics computer scientists int ested in both theoretical advances and applications of information systems artificial intelligence signal processing electronics and other engineering tools in knowledge areas related to biology and medicine biostec is composed of three co located conferences each specializes in one of the aforementioned main knowledge areas namely biodevices international conference on biomedical electronics and vices focuses on aspects related to electronics and mechanical engineering pecially equipment and materials inspired from biological systems and or dressing biological requirements monitoring devices instrumentation sensors and systems biorobotics micro nanotechnologies and biomaterials are some of the technologies addressed at this conference

Mine Safety and Health

1980-07

this book describes process mining use cases and business impact along the value chain from corporate to local applications representing the state of the art in domain know how providing a set of industrial case studies and best practices it complements academic publications on the topic further the book reveals the challenges and failures in order to offer readers practical insights and guidance on how to avoid the pitfalls and ensure successful operational deployment the book is divided into three parts part i provides an introduction to the topic from fundamental principles to key success factors and an overview of operational use cases as a holistic description of process mining in a business environment this part is particularly useful for readers not yet familiar with the topic part ii presents detailed use cases written by contributors from a variety of functions and industries lastly part iii provides a brief overview of the future of process mining both from academic and operational perspectives based on a solid academic foundation process mining has received increasing interest from operational businesses with many companies already reaping the benefits as the first book to present an overview of successful industrial applications it is of particular interest to professionals who want to learn more about the possibilities and opportunities this new technology offers it is also a valuable resource for researchers looking for empirical results when considering requirements for enhancements and further developments

Medical Geology in Mining

2022-06-14

at the intersection of computer science and healthcare data analytics has emerged as a promising tool for solving problems across many healthcare related disciplines supplying a comprehensive overview of recent healthcare analytics research healthcare data analytics provides a clear understanding of the analytical techniques currently available to solve healthcare problems the book details novel techniques for acquiring handling retrieving and making best use of healthcare data it analyzes recent developments in healthcare computing and discusses emerging technologies that can help improve the health and well being of patients written by prominent researchers and experts working in the healthcare domain the book sheds light on many of the computational challenges in the field of medical informatics each chapter in the book is structured as a survey style article discussing the prominent research issues and the advances made on that research topic the book is divided into three major categories healthcare data sources and basic analytics details the various healthcare data sources and analytical techniques used in the processing and analysis of such data advanced data analytics for healthcare covers advanced analytical methods including clinical prediction models temporal pattern mining methods and visual analytics applications and practical systems for healthcare covers the applications of data analytics to pervasive healthcare fraud detection and drug discovery along with systems for medical imaging and decision support computer scientists are usually not trained in domain specific medical concepts whereas medical practitioners and researchers have limited exposure to the data analytics area the contents of this book will help to bring together these diverse communities by carefully and comprehensively discussing the most relevant contributions from each domain

Biomedical Engineering Systems and Technologies

2008-11-27

clinical data mining in an allied health organisation a real world experience shows how data mining methodology can be used to promote quality management and research reflecting on the ways in which this approach transforms practice by encouraging practitioner and organisational learning client focused service improvement and professional role satisfaction

The Federal Mine Health Program in

1978

this book shows how the investigation of healthcare databases can be used to examine physician decisions to develop evidence based treatment guidelines that optimize patient outcomes provided by publisher

Process Mining in Action

2020-03-14

a powerful component of a health plans disease management toolkit is the health risk assessment hra which evaluates the populations health status and targets actionable programs to address identified risks implementing effective hras and mining the resulting data is a strategic means of harnessing healthcare costs and promoting consumer awareness in this special report

mining health risk assessments for richer roi and results hins expert panelists explore the progressive evolution of hras gregg lehman phd president and chief executive officer gordian health solutions marlene sigwalt rn msph clinical consultant innovation center humana inc and yan zhang research scientist humana inc provide procedures objectives predictive capacities consumer engagement strategies and results of these tactical questionnaires to identify risk before it becomes reality youll also get case studies on the hra programs at healthatoz blue shield of california and aetna you ll get details on evolutions in the hra market risk stratification in the hra ideas to incent hra participation strategies for engaging physicians in the hra effort case study of hra implementation anatomy of humana s in house hra development effort using hras to probe productivity how an incentives program at blue shield of california cut claims cost in its first year and stratifying your population to identify next years high risk population table of contents hin survey finds hras first line of defense in population health management evolutions in the hra market the market position hra evolution the gordian hra model selective branching critical sample online questionnaire hras as a screening tool risk stratification in the hra sample health risk profile creating hra profiles roi in population health management strategies dm programs yield greatest roi measuring outcomes the human condition lifestyle incentive programs ideas to incent hra participation getting physicians involved healthcare faces a chronic challenge chronic care the burden of illness same time next year hras help rescue risk pool drifters fine tuning the message from the c suite getting what you pay for cash incentives cut claims cost in first year sample questions from blue shield of california s hra lessons learned on the horizon using hras to probe productivity voluntary hras and tempered use of incentives is best strategy humanas home grown hras anatomy of in house development humanas health management strategy hra application architecture hra process flow sample hra results screen a sample population rates the hra going forward a look at satisfaction ratings q a ask the experts dissecting the roi keeping it simple multiple populations and the hra determining appropriate interventions age related concerns promoting physician engagement data sharing and application the movement to standard practice individual impacts in phm analysis the role of health coaches member qualification for intervention match case control groups glossary for more information about the authors

The Federal Coal Mine Health Program

1978

this open access book describes the results of natural language processing and machine learning methods applied to clinical text from electronic patient records it is divided into twelve chapters chapters 1 4 discuss the history and background of the original paper based patient records their purpose and how they are written and structured these initial chapters do not require any technical or medical background knowledge the remaining eight chapters are more technical in nature and describe various medical classifications and terminologies such as icd diagnosis codes snomed ct mesh umls and atc chapters 5 10 cover basic tools for natural language processing and information retrieval and how to apply them to clinical text the difference between rule based and machine learning based methods as well as between supervised and unsupervised machine learning methods are also explained next ethical concerns regarding the use of sensitive patient records for research purposes are discussed including methods for de identifying electronic patient records and safely storing patient records the book s closing chapters present a number of applications in clinical text mining and summarise the lessons learned from the previous chapters the book provides a comprehensive overview of technical issues arising in clinical text mining and offers a valuable guide for advanced students in

health informatics computational linguistics and information retrieval and for researchers entering these fields

Healthcare Data Analytics

2015-06-23

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 contents sequence analysis mining the sequence databases for homology detection application to recognition of functions of trypanosoma brucei brucei proteins and drug targets g ramakrishnan v s gowri r mudgal n r chandra and n srinivasan identification of genes and their regulatory regions based on multiple physical and structural properties of a dna sequence xi yang nancy yu song and hong yan mining genomic sequence data for related sequences using pairwise statistical significance yuhong zhang and yunbo rao biological network mining indexing for similarity queries on biological networks günhan gülsoy md mahmudul hasan yusuf kavurucu and tamer kahveci theory and method of completion for a boolean regulatory network using observed data takeyuki tamura and tatsuya akutsu mining frequent subgraph patterns for classifying biological data saeed salem on the integration of prior knowledge in the inference of regulatory networks catharina olsen benjamin haibe kains john quackenbush and gianluca bontempi classification trend analysis and 3d medical images classification and its application to drug target prediction jian ping mei chee keong kwoh peng yang and xiao li li characterization and prediction of human protein protein interactions yi xiong dan syzmanski and daisuke kihara trend analysis wen chuan xie miao he and jake yue chen data acquisition and preprocessing on three dimensional medical images yuhua jiao liang chen and jin chen text mining and its biomedical applications text mining in biomedicine and healthcare hong jie dai chi yang wu richard tzong han tsai and wen lian hsu learning to rank biomedical documents with only positive and unlabeled examples a case study mingzhu zhu yi fang brook wu meghana samir vasavada and jason t l wang automated mining of disease specific protein interaction networks based on biomedical literature rajesh chowdhary boris r jankovic rachel v stankowski john a c archer xiangliang zhang xin gao vladimir b bajic readership students professionals those who perform biological medical and bioinformatics research keywords healthcare data mining biological data mining protein interactions gene regulation text mining biological literature mining drug discovery disease network biological network graph mining sequence analysis structure analysis trend analysis medical imageskey features each chapter of this book will include a section to introduce a specific class of data mining techniques which will be written in a tutorial style so that even non computational readers such as biologists and healthcare researchers can appreciate themthe book will disseminate the impact research results and best practices of data mining approaches to the cross disciplinary researchers and practitioners

from both the data mining disciplines and the life sciences domains the authors of the book will be well known data mining experts bioinformaticians and clinicianseach chapter will also provide a detailed description on how to apply the data mining techniques in real world biological and clinical applications thus readers of this book can easily appreciate the computational techniques and how they can be used to address their own research issues

Clinical Data Mining in an Allied Health Organisation

2018-08-30

by applying data analytics techniques and machine learning algorithms to predict disease medical practitioners can more accurately diagnose and treat patients however researchers face problems in identifying suitable algorithms for pre processing transformations and the integration of clinical data in a single module as well as seeking different ways to build and evaluate models the handbook of research on disease prediction through data analytics and machine learning is a pivotal reference source that explores the application of algorithms to making disease predictions through the identification of symptoms and information retrieval from images such as mris ecgs eegs etc highlighting a wide range of topics including clinical decision support systems biomedical image analysis and prediction models this book is ideally designed for clinicians physicians programmers computer engineers it specialists data analysts hospital administrators researchers academicians and graduate and post graduate students

Clinical Data Mining for Physician Decision Making and Investigating Health Outcomes: Methods for Prediction and Analysis

2010-06-30

this publication provides an historical overview of research undertaken by the u s federal government over the last 100 years to improve the health and safety of our nation s miners federal research efforts began with the establishment of the u s bureau of mines usbm or the bureau in 1910 they have continued over the past century even after the bureau s closure in 1996 it is hoped that this publication will give the reader an appreciation for the work of mining health and safety researchers over the past century and of the miners served by this research although not a comprehensive history this report highlights the key organizational changes made within the bureau and the federal government that affected mining safety and health research some mention is also made of bureau research not directly related to mining health and safety note that the work classified as safety and health research has varied over the last century for example before 1970 the bureau separated mining research and safety and health research at that time mining research included ground control and methane drainage because they had direct implications for mine safety explosives research was also reported separately from health and safety even though permissible explosives research was obviously related to safety therefore where budget figures from the bureau are mentioned in this report it is often not possible to separate safety and health research from other types of research

Mining Health Risk Assessments for Richer ROI and Results

2006-01

includes text mining and natural language processing methods for extracting information from electronic health records and biomedical literature analyzes text analytic tools for new media such as online forums social media posts tweets and video sharing demonstrates how to use speech and audio technologies for improving access to online content for the visually impaired text mining of based medical content examines various approaches to deriving high quality information from online biomedical literature electronic health records query search terms social media posts and tweets using some of the latest empirical methods of knowledge extraction the authors show how online content generated by both professionals and laypersons can be mined for valuable information about disease processes adverse drug reactions not captured during clinical trials and tropical fever outbreaks additionally the authors show how to perform infromation extraction on a hospital intranet how to build a social media search engine to glean information about patients own experiences interacting with healthcare professionals and how to improve access to online health information this volume provides a wealth of timely material for health informatic professionals and machine learning data mining and natural language researchers topics in this book include mining biomedical literature and clinical narratives medication information extraction machine learning techniques for mining medical search queries detecting the level of personal health information revealed in social media curating layperson s personal experiences with health care from social media and twitter health dialogue systems for improving access to online content crowd based audio clips to improve online video access for the visually impaired semantic based visual information retrieval for mining radiographic image data evaluating the importance of medical terminology in youtube video titles and descriptions

The History of Miners' Diseases

1943

the future of healthcare technologies and what they mean for investors and entrepreneurs the healthcare technology revolution is just around the corner and when it arrives it will change and enrich our lives in ways we can only begin to imagine doctors will perform blood pressure readings via video chat and nutritionists will analyze diet based on photos taken with cellphone cameras transforming health care combines healthcare technology and finance in an innovative new way that explains the future of healthcare and its effects on patient care exploring the emergence of electronic tools that will transform the medical industry explaining how technology not politics will lead the future of the healthcare revolution author and healthcare technology expert phil fasano presents real life examples that show how the next generation of medical breakthroughs will come from the instant exchange of information across the world explores how new technologies will radically change the future of healthcare by making it easier to share information rapidly explains what the future of the high tech medical industry means for investors and entrepreneurs written by a respected healthcare and health technology expert offering an unprecedented look at how technology is transforming the healthcare industry and what it will mean for future investors and entrepreneurs transforming health care is a remarkable insight into the next generation of health technologies

Clinical Text Mining

2018-05-14

Doctors of the Mines

1971

Biological Data Mining and Its Applications in Healthcare

2013-11-28

Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning

2020-10-16

Informational Report - Mine Safety and Health Administration

1978

One Hundred Years of Federal Mining Safety and Health Research

2013-10

Text Mining of Web-Based Medical Content

2014-10-09

Transforming Health Care

2013-01-29

Mine Safety & Health

1978

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