

Data Mining Concepts and Techniques



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Jiawei Han, Micheline Kamber



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Data Mining: Concepts and Techniques Jiawei Han, Micheline Kamber, Jian Pei, 2011-06-09 Data Mining Concepts and Techniques provides the concepts and techniques in processing gathered data or information which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred to as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques for large data sets. After describing data mining, this edition explains the methods of knowing preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo code and suitable for use in real world large scale data mining projects. Addresses advanced topics such as mining object relational databases, spatial databases, multimedia databases, time series databases, text databases, the World Wide Web, and applications in several fields. Provides a comprehensive practical look at the concepts and techniques you need to get the most out of your data.

Data Mining Jiawei Han, Jian Pei, Hanghang Tong, 2022-07-02 Data Mining Concepts and Techniques Fourth Edition introduces concepts, principles, and methods for mining patterns, knowledge, and models from various kinds of data for diverse applications. Specifically, it delves into the processes for uncovering patterns and knowledge from massive collections of data, known as knowledge discovery from data or KDD. It focuses on the feasibility, usefulness, effectiveness, and scalability of data mining techniques for large data sets. After an introduction to the concept of data mining, the authors explain the methods for preprocessing, characterizing, and warehousing data. They then partition the data mining methods into several major tasks, introducing concepts and methods for mining frequent patterns, associations, and correlations for large data sets, data classification, and model construction, cluster analysis, and outlier detection. Concepts and methods for deep learning are systematically introduced as one chapter. Finally, the book covers the trends, applications, and research frontiers in data mining. Presents a comprehensive new chapter on deep learning, including improving training of deep learning models, convolutional neural networks, recurrent neural networks, and graph neural networks. Addresses advanced topics in one dedicated chapter: data mining trends and research frontiers, including mining rich data types, text, spatiotemporal data, and graph networks, data mining applications such as sentiment analysis, truth discovery, and information propagation, data mining methodology and systems, and data mining and society. Provides a comprehensive practical look at the concepts and techniques needed to get the most out of your data. Visit the author hosted

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Data Mining Jiawei Han, Micheline Kamber, 2012 Mining of Data with Complex Structures explores nature of data with complex structure including sequences trees and graphs Readers will find a detailed description of the state of the art of sequence mining tree mining and graph mining and more *Data Mining for Business Analytics* Galit Shmueli, Peter C. Bruce, Mia L. Stephens, Nitin R. Patel, 2016-05-11 Data Mining for Business Analytics Concepts Techniques and Applications with JMP Pro presents an applied and interactive approach to data mining Featuring hands on applications with JMP Pro a statistical package from the SAS Institute the book uses engaging real world examples to build a theoretical and practical understanding of key data mining methods especially predictive models for classification and prediction Topics include data visualization dimension reduction techniques clustering linear and logistic regression classification and regression trees discriminant analysis naive Bayes neural networks uplift modeling ensemble models and time series forecasting Data Mining for Business Analytics Concepts Techniques and Applications with JMP Pro also includes Detailed summaries that supply an outline of key topics at the beginning of each chapter End of chapter examples and exercises that allow readers to expand their comprehension of the presented material Data rich case studies to illustrate various applications of data mining techniques A companion website with over two dozen data sets exercises and case study solutions and slides for instructors www.dataminingbook.com Data Mining for Business Analytics Concepts Techniques and Applications with JMP Pro is an excellent textbook for advanced undergraduate and graduate level courses on data mining predictive analytics and business analytics The book is also a one of a kind resource for data scientists analysts researchers and practitioners working with analytics in the fields of management finance marketing information technology healthcare education and any other data rich field *Data Mining* Micheline Kamber, 2006 [DATA MINING CONCEPTS AND TECHNIQUES](#) Mr. Harish Reddy Gantla, Mrs. Usha Manjari, Mrs. Praveena Murala, Mr. Suresh Nannuri, 2024-07-02 Data mining is the process of discovering patterns correlations and anomalies within large datasets to predict outcomes Utilizing a variety of techniques drawn from statistics machine learning and database systems data mining aims to transform raw data into useful information Key concepts include classification clustering regression association rule learning and anomaly detection These techniques enable businesses and researchers to make data driven decisions uncover hidden trends and gain a competitive edge Classification is a predictive modeling technique where a model is trained to categorize data into predefined classes It is widely used in applications such as spam detection medical diagnosis and credit scoring Clustering on the other hand is an unsupervised learning technique that groups data points into clusters based on their similarities This approach is useful in market segmentation image processing and social network analysis Regression analysis predicts a continuous outcome variable based on one or more predictor variables It is essential in fields such as finance for forecasting stock prices or in

marketing for predicting sales trends Association rule learning identifies interesting relationships between variables in large databases often used in market basket analysis to find products frequently bought together Anomaly detection involves identifying rare items events or observations that differ significantly from the majority of the data This is crucial in fraud detection network security and fault detection in industrial systems The success of data mining projects relies on the quality of the data the appropriateness of the mining algorithms used and the proper interpretation of the results The process of data mining typically involves several steps data cleaning data integration data selection data transformation pattern discovery and knowledge presentation Each step is critical in ensuring that the final insights are accurate and actionable As data mining continues to evolve it is increasingly becoming integral to big data analytics driving advancements in various domains such as healthcare finance marketing and beyond **Data Mining** Elsevier Science & Technology,2004-06-01

Data Mining: Concepts and Techniques Camila Thompson,2025-08-25 Finding patterns within extensive datasets falls under the scope of data mining It draws upon techniques from database systems statistics and machine learning Its objective is to convert raw data into a structured format for subsequent analysis Beyond pattern discovery data mining includes data pre processing data management online updates model inference post processing visualization and complexity management of discovered structures Using statistical models and machine learning algorithms data mining reveals concealed patterns within vast data repositories Its applications span diverse domains including business medicine science and surveillance The topics included in this book on data mining are of the utmost significance and bound to provide incredible insights to readers Most of the topics introduced herein cover new concepts and applications of data mining This book with its detailed coverage will prove immensely beneficial to professionals and students involved in this area at various levels Data Mining Florin Gorunescu,2011-03-10 The knowledge discovery process is as old as Homo sapiens Until some time ago this process was solely based on the natural personal computer provided by Mother Nature Fortunately in recent decades the problem has begun to be solved based on the development of the Data mining technology aided by the huge computational power of the artificial computers Digging intelligently in different large databases data mining aims to extract implicit previously unknown and potentially useful information from data since knowledge is power The goal of this book is to provide in a friendly way both theoretical concepts and especially practical techniques of this exciting field ready to be applied in real world situations Accordingly it is meant for all those who wish to learn how to explore and analysis of large quantities of data in order to discover the hidden nugget of information **Data Mining: Concepts, Methodologies, Tools, and Applications**

Management Association, Information Resources,2012-11-30 Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end users into an understandable way Data Mining Concepts Methodologies Tools and Applications is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world **Data**

Warehousing and Mining: Concepts, Methodologies, Tools, and Applications Wang, John, 2008-05-31 In recent years the science of managing and analyzing large datasets has emerged as a critical area of research In the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data [Data Mining for Business Intelligence](#) Galit Shmueli, Peter C. Bruce, Inbal Yahav, 2011-09-28 Praise for the First Edition full of vivid and thought provoking anecdotes needs to be read by anyone with a serious interest in research and marketing Research magazine Shmueli et al have done a wonderful job in presenting the field of data mining a welcome addition to the literature computingreviews.com Incorporating a new focus on data visualization and time series forecasting Data Mining for Business Intelligence Second Edition continues to supply insightful detailed guidance on fundamental data mining techniques This new edition guides readers through the use of the Microsoft Office Excel add in XLMiner for developing predictive models and techniques for describing and finding patterns in data From clustering customers into market segments and finding the characteristics of frequent flyers to learning what items are purchased with other items the authors use interesting real world examples to build a theoretical and practical understanding of key data mining methods including classification prediction and affinity analysis as well as data reduction exploration and visualization The Second Edition now features Three new chapters on time series forecasting introducing popular business forecasting methods including moving average exponential smoothing methods regression based models and topics such as explanatory vs predictive modeling two level models and ensembles A revised chapter on data visualization that now features interactive visualization principles and added assignments that demonstrate interactive visualization in practice Separate chapters that each treat k nearest neighbors and Na ve Bayes methods Summaries at the start of each chapter that supply an outline of key topics The book includes access to XLMiner allowing readers to work hands on with the provided data Throughout the book applications of the discussed topics focus on the business problem as motivation and avoid unnecessary statistical theory Each chapter concludes with exercises that allow readers to assess their comprehension of the presented material The final chapter includes a set of cases that require use of the different data mining techniques and a related Web site features data sets exercise solutions PowerPoint slides and case solutions Data Mining for Business Intelligence Second Edition is an excellent book for courses on data mining forecasting and decision support systems at the upper undergraduate and graduate levels It is also a one of a kind resource for analysts researchers and practitioners working with quantitative methods in the fields of business finance marketing computer science and information technology **Contrast Data Mining** Guozhu Dong, James Bailey, 2016-04-19 A Fruitful Field for Researching Data Mining Methodology and for Solving Real Life Problems Contrast Data Mining Concepts Algorithms and Applications collects recent results from this specialized area of data mining that have previously been scattered in the literature making them more accessible to researchers and developers in data mining and

Data Mining Mehmed Kantardzic, 2019-10-23 Presents the latest techniques for analyzing and extracting information from large amounts of data in high dimensional data spaces The revised and updated third edition of Data Mining contains in one volume an introduction to a systematic approach to the analysis of large data sets that integrates results from disciplines such as statistics artificial intelligence data bases pattern recognition and computer visualization Advances in deep learning technology have opened an entire new spectrum of applications The author a noted expert on the topic explains the basic concepts models and methodologies that have been developed in recent years This new edition introduces and expands on many topics as well as providing revised sections on software tools and data mining applications Additional changes include an updated list of references for further study and an extended list of problems and questions that relate to each chapter This third edition presents new and expanded information that Explores big data and cloud computing Examines deep learning Includes information on convolutional neural networks CNN Offers reinforcement learning Contains semi supervised learning and S3VM Reviews model evaluation for unbalanced data Written for graduate students in computer science computer engineers and computer information systems professionals the updated third edition of Data Mining continues to provide an essential guide to the basic principles of the technology and the most recent developments in the field

Data Mining for Business Analytics Galit Shmueli, Patel, Nitin Ratilal Patel, Peter C. Bruce, 2016

Data Visualization and Knowledge Engineering Jude Hemanth, Madhulika Bhatia, Oana Geman, 2019-08-09 This book presents the fundamentals and advances in the field of data visualization and knowledge engineering supported by case studies and practical examples Data visualization and engineering has been instrumental in the development of many data driven products and processes As such the book promotes basic research on data visualization and knowledge engineering toward data engineering and knowledge Visual data exploration focuses on perception of information and manipulation of data to enable even non expert users to extract knowledge A number of visualization techniques are used in a variety of systems that provide users with innovative ways to interact with data and reveal patterns A variety of scalable data visualization techniques are required to deal with constantly increasing volume of data in different formats Knowledge engineering deals with the simulation of the exchange of ideas and the development of smart information systems in which reasoning and knowledge play an important role Presenting research in areas like data visualization and knowledge engineering this book is a valuable resource for students scholars and researchers in the field Each chapter is self contained and offers an in depth analysis of real world applications It discusses topics including but not limited to spatial data visualization biomedical visualization and applications image video summarization and visualization perception and cognition in visualization visualization taxonomies and models abstract data visualization information and graph visualization knowledge engineering human machine cooperation metamodeling natural language processing architectures of database expert and knowledge based systems knowledge acquisition methods applications case studies and management issues data administration issues and knowledge tools for specifying and

developing data and knowledge bases using tools based on communication aspects involved in implementing designing and using KBSs in cyberspace Semantic Web *Intelligent Systems and Computer Technology* D. Jude Hemanth,S. Malathi,2020-12-15 Recent developments in soft computation techniques have paved the way for handling huge volumes of data thereby bringing about significant changes and technological advancements This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing Next Generation Soft Computing is a platform for scientists researchers practitioners and academics to present and discuss their most recent innovations trends and concerns as well as the practical challenges encountered in the field The second section Evolutionary Networking and Communications focuses on various aspects of 5G communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas It brings together the latest technologies from all over the world and also provides an excellent international forum for the sharing of knowledge and results from theory methodology and applications in networking and communications The book will be of interest to all those working in the fields of intelligent systems and computer technology Data Mining: Concepts, Techniques, and Applications Mr. Sourabh Dattalkar ,Ms. Soniya Suthar ,Ms. Bhumika Pal ,Dr. Amit Mishra,2025-10-15

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