

DATA MINING AND ANALYSIS

Fundamental Concepts and Algorithms

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Advanced Data Mining and Applications Ronghuai Huang, Qiang Yang, Jian Pei, João Gama, Xiaofeng Meng, Xue Li, 2009-07-28 This book constitutes the refereed proceedings of the 5th International Conference on Advanced Data Mining and Applications ADMA 2009 held in Beijing China in August 2009 The 34 revised full papers and 47 revised short papers presented together with the abstract of 4 keynote lectures were carefully reviewed and selected from 322 submissions from 27 countries The papers focus on advancements in data mining and peculiarities and challenges of real world applications using data mining and feature original research results in data mining spanning applications algorithms software and systems and different applied disciplines with potential in data mining

The Microsoft Data Warehouse Toolkit Joy Mundy, Warren Thornthwaite, 2007-03-22 This groundbreaking book is the first in the Kimball Toolkit series to be product specific Microsoft's BI toolset has undergone significant changes in the SQL Server 2005 development cycle SQL Server 2005 is the first viable full functioned data warehouse and business intelligence platform to be offered at a price that will make data warehousing and business intelligence available to a broad set of organizations This book is meant to offer practical techniques to guide those organizations through the myriad of challenges to true success as measured by contribution to business value Building a data warehousing and business intelligence system is a complex business and engineering effort While there are significant technical challenges to overcome in successfully deploying a data warehouse the authors find that the most common reason for data warehouse project failure is insufficient focus on the business users and business problems In an effort to help people gain success this book takes the proven Business Dimensional Lifecycle approach first described in best selling The Data Warehouse Lifecycle Toolkit and applies it to the Microsoft SQL Server 2005 tool set Beginning with a thorough description of how to gather business requirements the book then works through the details of creating the target dimensional model setting up the data warehouse infrastructure creating the relational atomic database creating the analysis services databases designing and building the standard report set implementing security dealing with metadata managing ongoing maintenance and growing the DW BI system All of these steps tie back to the business requirements Each chapter describes the practical steps in the context of the SQL Server 2005 platform Intended Audience The target audience for this book is the IT department or service provider consultant who is Planning a small to mid range data warehouse project Evaluating or planning to use Microsoft technologies as the primary or exclusive data warehouse server technology Familiar with the general concepts of data warehousing and business intelligence The book will be directed primarily at the project leader and the warehouse developers although everyone involved with a data warehouse project will find the book useful Some of the book's content will be more technical than the typical project leader will need other chapters and sections will focus on business issues that are interesting to a database administrator or programmer as guiding information The book is focused on the mass market where the volume of data in a single application or data mart is

less than 500 GB of raw data While the book does discuss issues around handling larger warehouses in the Microsoft environment it is not exclusively or even primarily concerned with the unusual challenges of extremely large datasets About the Authors JOY MUNDY has focused on data warehousing and business intelligence since the early 1990s specializing in business requirements analysis dimensional modeling and business intelligence systems architecture Joy co founded InfoDynamics LLC a data warehouse consulting firm then joined Microsoft WebTV to develop closed loop analytic applications and a packaged data warehouse Before returning to consulting with the Kimball Group in 2004 Joy worked in Microsoft SQL Server product development managing a team that developed the best practices for building business intelligence systems on the Microsoft platform Joy began her career as a business analyst in banking and finance She graduated from Tufts University with a BA in Economics and from Stanford with an MS in Engineering Economic Systems WARREN THORNTHWAITE has been building data warehousing and business intelligence systems since 1980 Warren worked at Metaphor for eight years where he managed the consulting organization and implemented many major data warehouse systems After Metaphor Warren managed the enterprise wide data warehouse development at Stanford University He then co founded InfoDynamics LLC a data warehouse consulting firm with his co author Joy Mundy Warren joined up with WebTV to help build a world class multi terabyte customer focused data warehouse before returning to consulting with the Kimball Group In addition to designing data warehouses for a range of industries Warren speaks at major industry conferences and for leading vendors and is a long time instructor for Kimball University Warren holds an MBA in Decision Sciences from the University of Pennsylvania s Wharton School and a BA in Communications Studies from the University of Michigan RALPH KIMBALL PH D has been a leading visionary in the data warehouse industry since 1982 and is one of today s most internationally well known authors speakers consultants and teachers on data warehousing He writes the Data Warehouse Architect column for Intelligent Enterprise formerly DBMS magazine *R and Data Mining* Yanchang Zhao,2012-12-31 R and Data Mining introduces researchers post graduate students and analysts to data mining using R a free software environment for statistical computing and graphics The book provides practical methods for using R in applications from academia to industry to extract knowledge from vast amounts of data Readers will find this book a valuable guide to the use of R in tasks such as classification and prediction clustering outlier detection association rules sequence analysis text mining social network analysis sentiment analysis and more Data mining techniques are growing in popularity in a broad range of areas from banking to insurance retail telecom medicine research and government This book focuses on the modeling phase of the data mining process also addressing data exploration and model evaluation With three in depth case studies a quick reference guide bibliography and links to a wealth of online resources R and Data Mining is a valuable practical guide to a powerful method of analysis Presents an introduction into using R for data mining applications covering most popular data mining techniques Provides code examples and data so that readers can easily learn the techniques

Features case studies in real world applications to help readers apply the techniques in their work **Data Mining and Knowledge Discovery Handbook** Oded Z. Maimon, Oded Maimon, Lior Rokach, 2005 Organizes major concepts theories methodologies trends challenges and applications of data mining DM and knowledge discovery in databases KDD This book provides algorithmic descriptions of classic methods and also suitable for professionals in fields such as computing applications information systems management and more Feature Selection and Enhanced Krill Herd Algorithm for Text Document Clustering Laith Mohammad Qasim Abualigah, 2018-12-18 This book puts forward a new method for solving the text document TD clustering problem which is established in two main stages i A new feature selection method based on a particle swarm optimization algorithm with a novel weighting scheme is proposed as well as a detailed dimension reduction technique in order to obtain a new subset of more informative features with low dimensional space This new subset is subsequently used to improve the performance of the text clustering TC algorithm and reduce its computation time The k mean clustering algorithm is used to evaluate the effectiveness of the obtained subsets ii Four krill herd algorithms KHAs namely the a basic KHA b modified KHA c hybrid KHA and d multi objective hybrid KHA are proposed to solve the TC problem each algorithm represents an incremental improvement on its predecessor For the evaluation process seven benchmark text datasets are used with different characterizations and complexities Text document TD clustering is a new trend in text mining in which the TDs are separated into several coherent clusters where all documents in the same cluster are similar The findings presented here confirm that the proposed methods and algorithms delivered the best results in comparison with other similar methods to be found in the literature **Data Mining for Scientific and Engineering Applications** R.L. Grossman, 2001-10-31 Advances in technology are making massive data sets common in many scientific disciplines such as astronomy medical imaging bio informatics combinatorial chemistry remote sensing and physics To find useful information in these data sets scientists and engineers are turning to data mining techniques This book is a collection of papers based on the first two in a series of workshops on mining scientific datasets It illustrates the diversity of problems and application areas that can benefit from data mining as well as the issues and challenges that differentiate scientific data mining from its commercial counterpart While the focus of the book is on mining scientific data the work is of broader interest as many of the techniques can be applied equally well to data arising in business and web applications Audience This work would be an excellent text for students and researchers who are familiar with the basic principles of data mining and want to learn more about the application of data mining to their problem in science or engineering *Data Mining* Ian H. Witten, Eibe Frank, Mark A. Hall, 2011-02-03 Data Mining Practical Machine Learning Tools and Techniques Third Edition offers a thorough grounding in machine learning concepts as well as practical advice on applying machine learning tools and techniques in real world data mining situations This highly anticipated third edition of the most acclaimed work on data mining and machine learning will teach you everything you need to know about preparing inputs interpreting outputs

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Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

Managing Data Mining Technologies in Organizations Parag C. Pendharkar, 2003-01-01 Portals present unique strategic challenges in the academic environment Their conceptualization and design requires the input of campus constituents who seldom interact and whose interests are often opposite The implementation of a portal requires a coordination of applications and databases controlled by different campus units at a level that may never before have been attempted at the institution Building a portal is as much about constructing intra campus bridges as it is about user interfaces and content Designing Portals Opportunities and Challenges discusses the current status of portals in higher education by providing insight into the role portals play in an institution s business and educational strategy by taking the reader through the processes of conceptualization design and implementation of the portals in different stages of development at major universities and by offering insight from three producers of portal software systems in use at institutions of higher learning and elsewhere

Data Engineering and Management Rajkumar Kannan, Frederic Andres, 2012-01-16 This book constitutes the thoroughly refereed post conference proceedings of the Second International Conference on Data Engineering and Management ICDEM 2010 held in Tiruchirappalli India in July 2010 The 46 revised full papers presented together with 1 keynote paper and 2 tutorial papers were carefully reviewed and selected from numerous submissions The papers are

organized in topical sections on Digital Library Knowledge and Multimedia Data Management and Knowledge Extraction
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