Charu C. Aggarwal · Jiawei Han   *Editors*

Frequent Pattern Mining

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Data Mining Charu C. Aggarwal,2015-04-13 This textbook explores the different aspects of data mining from the fundamentals to the complex data types and their applications capturing the wide diversity of problem domains for data mining issues It goes beyond the traditional focus on data mining problems to introduce advanced data types such as text time series discrete sequences spatial data graph data and social networks Until now no single book has addressed all these topics in a comprehensive and integrated way The chapters of this book fall into one of three categories Fundamental chapters Data mining has four main problems which correspond to clustering classification association pattern mining and outlier analysis These chapters comprehensively discuss a wide variety of methods for these problems Domain chapters These chapters discuss the specific methods used for different domains of data such as text data time series data sequence data graph data and spatial data Application chapters These chapters study important applications such as stream mining Web mining ranking recommendations social networks and privacy preservation The domain chapters also have an applied flavor Appropriate for both introductory and advanced data mining courses Data Mining The Textbook balances mathematical details and intuition It contains the necessary mathematical details for professors and researchers but it is presented in a simple and intuitive style to improve accessibility for students and industrial practitioners including those with a limited mathematical background Numerous illustrations examples and exercises are included with an emphasis on semantically interpretable examples Praise for Data Mining The Textbook As I read through this book I have already decided to use it in my classes This is a book written by an outstanding researcher who has made fundamental contributions to data mining in a way that is both accessible and up to date The book is complete with theory and practical use cases It s a must have for students and professors alike Qiang Yang Chair of Computer Science and Engineering at Hong Kong University of Science and Technology This is the most amazing and comprehensive text book on data mining It covers not only the fundamental problems such as clustering classification outliers and frequent patterns and different data types including text time series sequences spatial data and graphs but also various applications such as recommenders Web social network and privacy It is a great book for graduate students and researchers as well as practitioners Philip S Yu UIC Distinguished Professor and Wexler Chair in Information Technology at University of Illinois at Chicago   Frequent Pattern Mining Charu C. Aggarwal,Jiawei Han,2014-08-29 This comprehensive reference consists of 18 chapters from prominent researchers in the field Each chapter is self contained and synthesizes one aspect of frequent pattern mining An emphasis is placed on simplifying the content so that students and practitioners can benefit from the book Each chapter contains a survey describing key research on the topic a case study and future directions Key topics include Pattern Growth Methods Frequent Pattern Mining in Data Streams Mining Graph Patterns Big Data Frequent Pattern Mining Algorithms for Data Clustering and more Advanced level students in computer science researchers and practitioners from industry will find this book an

invaluable reference   **Frequent Pattern Mining in Health Care Database** Dr. N. Venkatesan,   **Data Science Concepts and Techniques with Applications** Usman Qamar,Muhammad Summair Raza,2023-04-02 This textbook comprehensively covers both fundamental and advanced topics related to data science Data science is an umbrella term that encompasses data analytics data mining machine learning and several other related disciplines The chapters of this book are organized into three parts The first part chapters 1 to 3 is a general introduction to data science Starting from the basic concepts the book will highlight the types of data its use its importance and issues that are normally faced in data analytics followed by presentation of a wide range of applications and widely used techniques in data science The second part which has been updated and considerably extended compared to the first edition is devoted to various techniques and tools applied in data science Its chapters 4 to 10 detail data pre processing classification clustering text mining deep learning frequent pattern mining and regression analysis Eventually the third part chapters 11 and 12 present a brief introduction to Python and R the two main data science programming languages and shows in a completely new chapter practical data science in the WEKA Waikato Environment for Knowledge Analysis an open source tool for performing different machine learning and data mining tasks An appendix explaining the basic mathematical concepts of data science completes the book This textbook is suitable for advanced undergraduate and graduate students as well as for industrial practitioners who carry out research in data science They both will not only benefit from the comprehensive presentation of important topics but also from the many application examples and the comprehensive list of further readings which point to additional publications providing more in depth research results or provide sources for a more detailed description of related topics This book delivers a systematic carefully thoughtful material on Data Science from the Foreword by Witold Pedrycz U Alberta Canada

Machine Learning for Data Streams Albert Bifet,Ricard Gavalda,Geoffrey Holmes,Bernhard Pfahringer,2018-03-16 A hands on approach to tasks and techniques in data stream mining and real time analytics with examples in MOA a popular freely available open source software framework Today many information sources including sensor networks financial markets social networks and healthcare monitoring are so called data streams arriving sequentially and at high speed Analysis must take place in real time with partial data and without the capacity to store the entire data set This book presents algorithms and techniques used in data stream mining and real time analytics Taking a hands on approach the book demonstrates the techniques using MOA Massive Online Analysis a popular freely available open source software framework allowing readers to try out the techniques after reading the explanations The book first offers a brief introduction to the topic covering big data mining basic methodologies for mining data streams and a simple example of MOA More detailed discussions follow with chapters on sketching techniques change classification ensemble methods regression clustering and frequent pattern mining Most of these chapters include exercises an MOA based lab session or both Finally the book discusses the MOA software covering the MOA graphical user interface the command line use of its API and the development

of new methods within MOA The book will be an essential reference for readers who want to use data stream mining as a tool researchers in innovation or data stream mining and programmers who want to create new algorithms for MOA <u>Business and Consumer Analytics: New Ideas</u> Pablo Moscato,Natalie Jane de Vries,2019-05-30 This two volume handbook presents a collection of novel methodologies with applications and illustrative examples in the areas of data driven computational social sciences Throughout this handbook the focus is kept specifically on business and consumer oriented applications with interesting sections ranging from clustering and network analysis meta analytics memetic algorithms machine learning recommender systems methodologies parallel pattern mining and data mining to specific applications in market segmentation travel fashion or entertainment analytics A must read for anyone in data analytics marketing behavior modelling and computational social science interested in the latest applications of new computer science methodologies The chapters are contributed by leading experts in the associated fields The chapters cover technical aspects at different levels some of which are introductory and could be used for teaching Some chapters aim at building a commonunderstanding of the methodologies and recent application areas including the introduction of new theoretical results in the complexity of core problems Business and marketing professionals may use the book to familiarize themselves with some important foundations of data science The work is a good starting point to establish an open dialogue of communication between professionals and researchers from different fields Together the two volumes present a number of different new directions in Business and Customer Analytics with an emphasis in personalization of services the development of new mathematical models and new algorithms heuristics and metaheuristics applied to the challenging problems in the field Sections of the book have introductory material to more specific and advanced themes in some of the chapters allowing the volumes to be used as an advanced textbook Clustering Proximity Graphs Pattern Mining Frequent Itemset Mining Feature Engineering Network and Community Detection Network based Recommending Systems and Visualization are some of the topics in the first volume Techniques on Memetic Algorithms and their applications to Business Analytics and Data Science are surveyed in the second volume applications in Team Orienteering Competitive Facility location and Visualization of Products and Consumers are also discussed The second volume also includes an introduction to Meta Analytics and to the application areas of Fashion and Travel Analytics Overall the two volume set helps to describe some fundamentals acts as a bridge between different disciplines and presents important results in a rapidly moving field combining powerful optimization techniques allied to new mathematical models critical for personalization of services Academics and professionals working in the area of business anyalytics data science operations research and marketing will find this handbook valuable as a reference Students studying these fields will find this handbook useful and helpful as a secondary textbook <u>Proceedings of the First International Conference on Computational Intelligence and Informatics</u> Suresh Chandra Satapathy,V. Kamakshi Prasad,B. Padmaja Rani,Siba K. Udgata,K. Srujan Raju,2016-11-26 The book covers a variety of topics which include data mining and data

warehousing high performance computing parallel and distributed computing computational intelligence soft computing big data cloud computing grid computing cognitive computing image processing computer networks wireless networks social networks wireless sensor networks information and network security web security internet of things bioinformatics and geoinformatics The book is a collection of best papers submitted in the First International Conference on Computational Intelligence and Informatics ICCII 2016 held during 28 30 May 2016 at JNTUH CEH Hyderabad India It was hosted by Department of Computer Science and Engineering JNTUH College of Engineering in association with Division V Education Research CSI India   **Advances in Web-Age Information Management** Xiaofeng Meng,Jianwen Su,Yujun Wang,2003-08-02 This book constitutes the refereed proceedings of the Third International Conference on Web Age Information Management WAIM 2002 held in Beijing China in August 2002 The 40 papers presented together with two system demonstrations were carefully reviewed and selected from 169 submissions The papers are organized in topical sections on XML spatio temporal databases data mining and learning XML and web workflows and e services bio informatics views and OLAP clustering and high dimensional data web search optimization and updates and transactions and multimedia

   Proceedings of the 2000 ACM SIGMOD International Conference on Management of Data Weidong Chen,Jeffrey F. Naughton,Philip A. Bernstein,2000   Database and Expert Systems Applications ,2004   **AI ...** ,2005   SIGKDD Explorations ,2000   **KDD ...** ,2006   *Proceedings of the Seventh SIAM International Conference on Data Mining* Chid Apte,Bing Liu,Srinivasan Parthasarathy,2007 The Seventh SIAM International Conference on Data Mining SDM 2007 continues a series of conferences whose focus is the theory and application of data mining to complex datasets in science engineering biomedicine and the social sciences These datasets challenge our abilities to analyze them because they are large and often noisy Sophisticated highperformance and principled analysis techniques and algorithms based on sound statistical foundations are required Visualization is often critically important tuning for performance is a significant challenge and the appropriate levels of abstraction to allow end users to exploit sophisticated techniques and understand clearly both the constraints and interpretation of results are still something of an open question   Next Generation of Data-Mining Applications Mehmed Kantardzic,Jozef Zurada,2005-03-08 Discover the next generation of data mining tools and technology This book brings together an international team of eighty experts to present readers with the next generation of data mining applications Unlike other publications that take a strictly academic and theoretical approach this book features authors who have successfully developed data mining solutions for a variety of customer types Presenting their state of the art methodologies and techniques the authors show readers how they can analyze enormous quantities of data and make new discoveries by connecting key pieces of data that may be spread across several different databases and file servers The latest data mining techniques that will revolutionize research across a wide variety of fields including business science healthcare and industry are all presented Organized by application the twenty five chapters cover applications in Industry and business

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