



DATA MINING FOR **ASSOCIATION RULES** AND **SEQUENTIAL PATTERNS**

Sequential and Parallel Algorithms

Jean-Marc Adamo

Data Mining For Association Rules And Sequential Patterns Sequential And Parallel Algorithms

John C. Shafer



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Data Mining for Association Rules and Sequential Patterns Jean-Marc Adamo,2012-12-06 Data mining includes a wide range of activities such as classification clustering similarity analysis summarization association rule and sequential pattern discovery and so forth The book focuses on the last two previously listed activities It provides a unified presentation of algorithms for association rule and sequential pattern discovery For both mining problems the presentation relies on the lattice structure of the search space All algorithms are built as processes running on this structure Proving their properties takes advantage of the mathematical properties of the structure Part of the motivation for writing this book was postgraduate teaching One of the main intentions was to make the book a suitable support for the clear exposition of problems and algorithms as well as a sound base for further discussion and investigation Since the book only assumes elementary mathematical knowledge in the domains of lattices combinatorial optimization probability calculus and statistics it is fit for use by undergraduate students as well The algorithms are described in a C like pseudo programming language The computations are shown in great detail This makes the book also fit for use by implementers computer scientists in many domains as well as industry engineers

High Performance Computing and Communications Jack Dongarra,Laurence T. Yang,Omer F. Rana,Beniamino Di Martino,2005-10-05

Parallel Data Mining for Association Rules on Shared-memory Multi-processors Mohammed Javeed Zaki,M. Ogihara,S. Parthasarathy,1996 Abstract Data mining is an emerging research area whose goal is to extract significant patterns or interesting rules from large databases High level inference from large volumes of routine business data can provide valuable information to businesses such as customer buying patterns shelving criterion in supermarkets and stock trends Many algorithms have been proposed for data mining of association rules However research so far has mainly focused on sequential algorithms In this paper we present parallel algorithms for data mining of association rules and study the degree of parallelism synchronization and data locality issues on the SGI Power Challenge shared memory multi processor We further present a set of optimizations for the sequential and parallel algorithms Experiments show that a significant improvement of performance is achieved using our proposed optimizations We also achieved good speed up for the parallel algorithm but we observe a need for parallel I O techniques for further performance gains

Advances in Knowledge Discovery in Databases Animesh Adhikari,Jhimli Adhikari,2014-12-27 This book presents recent advances in Knowledge discovery in databases KDD with a focus on the areas of market basket database time stamped databases and multiple related databases Various interesting and intelligent algorithms are reported on data mining tasks A large number of association measures are presented which play significant roles in decision support applications This book presents discusses and contrasts new developments in mining time stamped data time based data analyses the identification of temporal patterns the mining of multiple related databases as well as local patterns analysis

Parallel Data Mining for Association Rules on Shared-memory Multi-processors Mohammed Javeed Zaki,1996 Abstract

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Specification Case Studies in RAISE Hung Dang Van, 2002-02-08 This volume presents twelve case studies that use RAISE Rigorous Approach to Industrial Software Engineering to construct, analyse, develop and apply formal specifications. The case studies cover a wide range of application areas including government finance, case based reasoning, multi language text processing, object oriented design patterns, component based software design and natural resource management. By illustrating the variety of uses of formal specifications, the case studies also raise questions about the creation, purpose and scope of formal models before they are built. Additional resources and complete specifications for all of the case studies and the RAISE tools used to process them are available on the World Wide Web. This book will be of particular interest to software engineers, especially those responsible for the initial stages of requirements engineering and software architecture and design. It will also be of interest to academics and students on advanced formal methods courses.

Large-Scale Parallel Data Mining Mohammed J. Zaki, Ching-Tien Ho, 2000-02-23 With the unprecedented growth rate at which data is being collected and stored electronically today in almost all fields of human endeavor, the efficient extraction of useful information from the data available is becoming an increasing scientific challenge and a massive economic need. This book presents thoroughly reviewed and revised full versions of papers presented at a workshop on the topic held during KDD 99 in San Diego, California, USA in August 1999, complemented by several invited chapters and a detailed introductory survey in order to provide complete coverage of the relevant issues. The contributions presented cover all major tasks in data mining including parallel and distributed mining frameworks, associations, sequences, clustering and classification. All in all, the volume presents the state of the art in the young and dynamic field of parallel and distributed data mining methods. It will be a valuable source of reference for researchers and professionals.

Mining Interesting Patterns from Sequential Data Valerie Guralnik, 2001

Proceedings of the 1998 ACM SIGMOD International Conference on Management of Data Laura Haas, Ashutosh Tiwary, 1998

Data Analytics and Modeling Techniques R. Kavishree, K. Sudha, M. S. Soundarya, M. Ramya, 2023-05-26 This book is suitable for an introductory course of data analytics to help students understand some main statistical learning models such as linear

regression logistic regression tree models and random forests ensemble learning sparse learning principal component analysis kernel methods including the support vector machine and kernel regression etc Data science practice is a process that should be told as a story rather than a one time implementation of one single model This process is a main focus of this book with many course materials about exploratory data analysis residual analysis and flowcharts to develop and validate models and data pipelines An instructors will find graphical illustrations to explain some methods to students On a larger scale the connection between classic statistical models with machine learning algorithms is illustrated by focusing on the understanding of the iterative nature of the computational algorithms enabled by computers We help students develop an eye for a method s connection with other models that only appear to be different This understanding will help us know a method s strength and limitations the importance of the context and the assumptions we have carried in our data analysis An important for students to understand the storytelling component of data science Data scientists tell stories every day A story conveys a message and a skilful data scientist must have the experience that the message changes its shape and meaning depending on which model is used how the model is tuned or what part of the data is used And some models have assumed a particular storytelling mode or structure For example we found hypothesis testing is a difficult concept for students to understand its essence because it is a negative reading of data It is not to translate what the data says but to seek evidence from data against the null hypothesis we will need to come up with first Examples as such will be found in the book to help students have a larger and deeper view of what they will learn

High-Performance Parallel Database Processing and Grid Databases David Taniar, Clement H. C. Leung, Wenny Rahayu, 2008-10-13 The latest techniques and principles of parallel and grid database processing The growth in grid databases coupled with the utility of parallel query processing presents an important opportunity to understand and utilize high performance parallel database processing within a major database management system DBMS This important new book provides readers with a fundamental understanding of parallelism in data intensive applications and demonstrates how to develop faster capabilities to support them It presents a balanced treatment of the theoretical and practical aspects of high performance databases to demonstrate how parallel query is executed in a DBMS including concepts algorithms analytical models and grid transactions High Performance Parallel Database Processing and Grid Databases serves as a valuable resource for researchers working in parallel databases and for practitioners interested in building a high performance database It is also a much needed self contained textbook for database courses at the advanced undergraduate and graduate levels

Principles of Data Mining and Knowledge Discovery, 2001 **Efficient Sequential and Parallel Algorithms for Mining Association Rules in Text Databases** John D. Holt, 2003 **Proceedings of the ... SIAM International Conference on Data Mining**, 2005 **Proceedings of the ... ACM SIGPLAN Symposium on Principles & Practice of Parallel Programming**, 2007 **Dealing with the Data Flood** Jeroen Meij, 2002 **Discovery Science**, 2003 **Parallel and Distributed Systems (ICPADS 2004)**

Nian-Feng Tzeng,2004 The proceedings of the July 2004 conference consists of 66 papers presenting recent research on peer to peer networks routing in optical networks caching and scheduling parallel algorithms grid and distributed systems wireless sensor networks performance evaluation and load balancing Three i **Advances in Knowledge Discovery and Data Mining** ,2003 Parallelization of Data Mining Operations John C. Shafer,1998

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