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Robson L. F. Cordeiro
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Data Mining in Large Sets of Complex Data

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Data Mining In Large Sets Of Complex Data Springerbriefs In Computer Science

Max Bramer



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Data Mining in Large Sets of Complex Data Robson Leonardo Ferreira Cordeiro, Christos Faloutsos, Caetano Traina Júnior, 2013-01-11 The amount and the complexity of the data gathered by current enterprises are increasing at an exponential rate Consequently the analysis of Big Data is nowadays a central challenge in Computer Science especially for complex data For example given a satellite image database containing tens of Terabytes how can we find regions aiming at identifying native rainforests deforestation or reforestation Can it be made automatically Based on the work discussed in this book the answers to both questions are a sound yes and the results can be obtained in just minutes In fact results that used to require days or weeks of hard work from human specialists can now be obtained in minutes with high precision Data Mining in Large Sets of Complex Data discusses new algorithms that take steps forward from traditional data mining especially for clustering by considering large complex datasets Usually other works focus in one aspect either data size or complexity This work considers both it enables mining complex data from high impact applications such as breast cancer diagnosis region classification in satellite images assistance to climate change forecast recommendation systems for the Web and social networks the data are large in the Terabyte scale not in Giga as usual and very accurate results are found in just minutes Thus it provides a crucial and well timed contribution for allowing the creation of real time applications that deal with Big Data of high complexity in which mining on the fly can make an immeasurable difference such as supporting cancer diagnosis or detecting deforestation

Complex Data Analytics with Formal Concept Analysis Rokia Missaoui, Léonard Kwuida, Talel Abdesslem, 2022-06-29 FCA is an important formalism that is associated with a variety of research areas such as lattice theory knowledge representation data mining machine learning and semantic Web It is successfully exploited in an increasing number of application domains such as software engineering information retrieval social network analysis and bioinformatics Its mathematical power comes from its concept lattice formalization in which each element in the lattice captures a formal concept while the whole structure represents a conceptual hierarchy that offers browsing clustering and association rule mining Complex data analytics refers to advanced methods and tools for mining and analyzing data with complex structures such as XML Json data text and image data multidimensional data graphs sequences and streaming data It also covers visualization mechanisms used to highlight the discovered knowledge This edited book examines a set of important and relevant research directions in complex data management and updates the contribution of the FCA community in analyzing complex and large data such as knowledge graphs and interlinked contexts For example Formal Concept Analysis and some of its extensions are exploited revisited and coupled with recent processing parallel and distributed paradigms to maximize the benefits in analyzing large data

Spatio-Temporal Data Streams Zdravko Galić, 2016-08-26 This SpringerBrief presents the fundamental concepts of a specialized class of data stream spatio temporal data streams and demonstrates their distributed processing using Big Data frameworks and platforms It explores a consistent framework

which facilitates a thorough understanding of all different facets of the technology from basic definitions to state of the art techniques Key topics include spatio temporal continuous queries distributed stream processing SQL like language embedding and trajectory stream clustering Over the course of the book the reader will become familiar with spatio temporal data streams management and data flow processing which enables the analysis of huge volumes of location aware continuous data streams Applications range from mobile object tracking and real time intelligent transportation systems to traffic monitoring and complex event processing Spatio Temporal Data Streams is a valuable resource for researchers studying spatio temporal data streams and Big Data analytics as well as data engineers and data scientists solving data management and analytics problems associated with this class of data

Bayesians Versus Frequentists Jordi Vallverdú, 2015-11-06 This book analyzes the origins of statistical thinking as well as its related philosophical questions such as causality determinism or chance Bayesian and frequentist approaches are subjected to a historical cognitive and epistemological analysis making it possible to not only compare the two competing theories but to also find a potential solution The work pursues a naturalistic approach proceeding from the existence of numerosity in natural environments to the existence of contemporary formulas and methodologies to heuristic pragmatism a concept introduced in the book's final section This monograph will be of interest to philosophers and historians of science and students in related fields Despite the mathematical nature of the topic no statistical background is required making the book a valuable read for anyone interested in the history of statistics and human cognition

Network Role Mining and Analysis Derek Doran, 2017-03-20 This brief presents readers with a summary of classic modern and state of the art methods for discovering the roles of entities in networks including social networks that range from small to large scale It classifies methods by their mathematical underpinning whether they are driven by implications about entity behaviors in system or if they are purely data driven The brief also discusses when and how each method should be applied and discusses some outstanding challenges toward the development of future role mining methods of each type

Introduction to Data Mining and Its Applications S. Sumathi, S.N. Sivanandam, 2006-09-26 This book explores the concepts of data mining and data warehousing a promising and flourishing frontier in data base systems and new data base applications and is also designed to give a broad yet in depth overview of the field of data mining Data mining is a multidisciplinary field drawing work from areas including database technology AI machine learning NN statistics pattern recognition knowledge based systems knowledge acquisition information retrieval high performance computing and data visualization This book is intended for a wide audience of readers who are not necessarily experts in data warehousing and data mining but are interested in receiving a general introduction to these areas and their many practical applications Since data mining technology has become a hot topic not only among academic students but also for decision makers it provides valuable hidden business and scientific intelligence from a large amount of historical data It is also written for technical managers and executives as well as for technologists interested in learning

about data mining 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 Handbook of Massive Data Sets James Abello, Panos M. Pardalos, Mauricio G.C. Resende, 2002-03-31 The Handbook of Massive Data Sets is comprised of articles written by experts on selected topics that deal with some major aspect of massive data sets It contains chapters on information retrieval both in the internet and in the traditional sense web crawlers massive graphs string processing data compression clustering methods wavelets optimization external memory algorithms and data structures the US national cluster project high performance computing data warehouses data cubes semi structured data data squashing data quality billing in the large fraud detection and data processing in astrophysics air pollution biomolecular data earth observation and the environment The proliferation of massive data sets brings with it a series of special computational challenges This data

avalanche arises in a wide range of scientific and commercial applications *Mining Complex Data* Zbigniew W. Ras, Shusaku Tsumoto, Djamel A. Zighed, 2008-05-13 This book constitutes the refereed proceedings of the Third International Workshop on Mining Complex Data MCD 2007 held in Warsaw Poland in September 2007 co located with ECML and PKDD 2007 The 20 revised full papers presented were carefully reviewed and selected they present original results on knowledge discovery from complex data In contrast to the typical tabular data complex data can consist of heterogenous data types can come from different sources or live in high dimensional spaces All these specificities call for new data mining strategies

Mining Complex Data Zbigniew W. Ras, Shusaku Tsumoto, Djamel A. Zighed, 2008-05-13 This book constitutes the refereed proceedings of the Third International Workshop on Mining Complex Data MCD 2007 held in Warsaw Poland in September 2007 co located with ECML and PKDD 2007 The 20 revised full papers presented were carefully reviewed and selected they present original results on knowledge discovery from complex data In contrast to the typical tabular data complex data can consist of heterogenous data types can come from different sources or live in high dimensional spaces All these specificities call for new data mining strategies Data Preprocessing in Data Mining Salvador García, Julián Luengo, Francisco Herrera, 2014-08-30 Data Preprocessing for Data Mining addresses one of the most important issues within the well known Knowledge Discovery from Data process Data directly taken from the source will likely have inconsistencies errors or most importantly it is not ready to be considered for a data mining process Furthermore the increasing amount of data in recent science industry and business applications calls to the requirement of more complex tools to analyze it Thanks to data preprocessing it is possible to convert the impossible into possible adapting the data to fulfill the input demands of each data mining algorithm Data preprocessing includes the data reduction techniques which aim at reducing the complexity of the data detecting or removing irrelevant and noisy elements from the data This book is intended to review the tasks that fill the gap between the data acquisition from the source and the data mining process A comprehensive look from a practical point of view including basic concepts and surveying the techniques proposed in the specialized literature is given Each chapter is a stand alone guide to a particular data preprocessing topic from basic concepts and detailed descriptions of classical algorithms to an incursion of an exhaustive catalog of recent developments The in depth technical descriptions make this book suitable for technical professionals researchers senior undergraduate and graduate students in data science computer science and engineering Data Mining Robert Stahlbock, Sven F. Crone, Stefan Lessmann, 2009-11-10 Over the course of the last twenty years research in data mining has seen a substantial increase in interest attracting original contributions from various disciplines including computer science statistics operations research and information systems Data mining supports a wide range of applications from medical decision making bioinformatics web usage mining and text and image recognition to prominent business applications in corporate planning direct marketing and credit scoring Research in information systems equally reflects this inter and multidisciplinary approach thereby advocating a series of

papers at the intersection of data mining and information systems research This special issue of Annals of Information Systems contains original papers and substantial extensions of selected papers from the 2007 and 2008 International Conference on Data Mining DMIN 07 and DMIN 08 Las Vegas NV that have been rigorously peer reviewed The issue brings together topics on both information systems and data mining and aims to give the reader a current snapshot of the contemporary research and state of the art practice in data mining

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 companion site <https://hanj.cs.illinois.edu/bk4> for downloadable lecture slides and errata

[Data Mining, Rough Sets and Granular Computing](#) Tsau Young Lin,Yiyu Y. Yao,Lotfi A. Zadeh,2014-01-15 *Principles of Data Mining* Max Bramer,2016-11-09 This book explains and explores the principal techniques of Data Mining the automatic extraction of implicit and potentially useful information from data which is increasingly used in commercial scientific and other application areas It focuses on classification association rule mining and clustering Each topic is clearly explained with a focus on algorithms not mathematical formalism and is illustrated by detailed worked examples The book is written for readers without a strong background in mathematics or statistics and any formulae used are explained in detail It can be used as a textbook to support courses at undergraduate or postgraduate levels in a wide range of subjects including Computer Science Business Studies Marketing Artificial Intelligence Bioinformatics and Forensic Science As an aid to self study this book aims to help general readers develop the necessary understanding of what is inside the black box so they can use commercial data mining packages discriminately as well as enabling advanced readers or academic researchers to understand or contribute

to future technical advances in the field Each chapter has practical exercises to enable readers to check their progress A full glossary of technical terms used is included This expanded third edition includes detailed descriptions of algorithms for classifying streaming data both stationary data where the underlying model is fixed and data that is time dependent where the underlying model changes from time to time a phenomenon known as concept drift *Complex Pattern Mining* Annalisa Appice, Michelangelo Ceci, Corrado Loglisci, Giuseppe Manco, Elio Masciari, Zbigniew W. Ras, 2020-01-14 This book discusses the challenges facing current research in knowledge discovery and data mining posed by the huge volumes of complex data now gathered in various real world applications e g business process monitoring cybersecurity medicine language processing and remote sensing The book consists of 14 chapters covering the latest research by the authors and the research centers they represent It illustrates techniques and algorithms that have recently been developed to preserve the richness of the data and allow us to efficiently and effectively identify the complex information it contains Presenting the latest developments in complex pattern mining this book is a valuable reference resource for data science researchers and professionals in academia and industry Big Data Preprocessing Julián Luengo, Diego García-Gil, Sergio Ramírez-Gallego, Salvador García, Francisco Herrera, 2020-03-16 This book offers a comprehensible overview of Big Data Preprocessing which includes a formal description of each problem It also focuses on the most relevant proposed solutions This book illustrates actual implementations of algorithms that helps the reader deal with these problems This book stresses the gap that exists between big raw data and the requirements of quality data that businesses are demanding This is called Smart Data and to achieve Smart Data the preprocessing is a key step where the imperfections integration tasks and other processes are carried out to eliminate superfluous information The authors present the concept of Smart Data through data preprocessing in Big Data scenarios and connect it with the emerging paradigms of IoT and edge computing where the end points generate Smart Data without completely relying on the cloud Finally this book provides some novel areas of study that are gathering a deeper attention on the Big Data preprocessing Specifically it considers the relation with Deep Learning as of a technique that also relies in large volumes of data the difficulty of finding the appropriate selection and concatenation of preprocessing techniques applied and some other open problems Practitioners and data scientists who work in this field and want to introduce themselves to preprocessing in large data volume scenarios will want to purchase this book Researchers that work in this field who want to know which algorithms are currently implemented to help their investigations may also be interested in this book Data Mining and Knowledge Discovery for Big Data Wesley W. Chu, 2013-09-24 The field of data mining has made significant and far reaching advances over the past three decades Because of its potential power for solving complex problems data mining has been successfully applied to diverse areas such as business engineering social media and biological science Many of these applications search for patterns in complex structural information In biomedicine for example modeling complex biological systems requires linking knowledge across many levels of science from genes to

disease Further the data characteristics of the problems have also grown from static to dynamic and spatiotemporal complete to incomplete and centralized to distributed and grow in their scope and size this is known as big data The effective integration of big data for decision making also requires privacy preservation The contributions to this monograph summarize the advances of data mining in the respective fields This volume consists of nine chapters that address subjects ranging from mining data from opinion spatiotemporal databases discriminative subgraph patterns path knowledge discovery social media and privacy issues to the subject of computation reduction via binary matrix factorization

Computational Intelligence in Data Mining G. Della Riccia, Giacomo Della Riccia, Rudolf Kruse, Hans-J. Lenz, 2000-05-31 The book aims to merge Computational Intelligence with Data Mining which are both hot topics of current research and industrial development Computational Intelligence incorporates techniques like data fusion uncertain reasoning heuristic search learning and soft computing Data Mining focuses on unscrambling unknown patterns or structures in very large data sets Under the headline Discovering Structures in Large Databases the book starts with a unified view on Data Mining and Statistics A System Point of View Two special techniques follow Subgroup Mining and Data Mining with Possibilistic Graphical Models Data Fusion and Possibilistic or Fuzzy Data Analysis is the next area of interest An overview of possibilistic logic nonmonotonic reasoning and data fusion is given the coherence problem between data and non linear fuzzy models is tackled and outlier detection based on learning of fuzzy models is studied In the domain of Classification and Decomposition adaptive clustering and visualisation of high dimensional data sets is introduced Finally in the section Learning and Data Fusion learning of special multi agents of virtual soccer is considered The last topic is on data fusion based on stochastic models

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

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