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Christos Faloutsos
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Data Mining in Large Sets of Complex Data

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**Robson Leonardo Ferreira
Cordeiro, Christos Faloutsos, Caetano
Traina Júnior**



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

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

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

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

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 is 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. **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 heterogeneous 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

Handbook of Massive Data Sets James Abello, Panos M. Pardalos, Mauricio G.C. Resende, 2013-12-21 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 With advances in computer and information technologies many of these challenges are beginning to be addressed by diverse inter disciplinary groups that include computer scientists mathematicians statisticians and engineers working in close cooperation with application domain experts High profile applications include astrophysics bio technology demographics finance geographical information systems government medicine telecommunications the environment and the internet John R Tucker of the Board on Mathematical Sciences has stated My interest in this problem Massive Data Sets is that I see it as the most important cross cutting problem for the mathematical sciences in practical problem solving for the next decade because it is so pervasive 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

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