



Algorithms Of Data Mining

JL Elias



Algorithms Of Data Mining:

The Top Ten Algorithms in Data Mining Xindong Wu, Vipin Kumar, 2009-04-09 Identifying some of the most influential algorithms that are widely used in the data mining community *The Top Ten Algorithms in Data Mining* provides a description of each algorithm discusses its impact and reviews current and future research Thoroughly evaluated by independent reviewers each chapter focuses on a particular algorithm and is written by either the original authors of the algorithm or world class researchers who have extensively studied the respective algorithm The book concentrates on the following important algorithms C4.5 k-Nearest Neighbors Means SVM Apriori EM PageRank AdaBoost k-NN Naive Bayes and CART Examples illustrate how each algorithm works and highlight its overall performance in a real world application The text covers key topics including classification clustering statistical learning association analysis and link mining in data mining research and development as well as in data mining machine learning and artificial intelligence courses By naming the leading algorithms in this field this book encourages the use of data mining techniques in a broader realm of real world applications It should inspire more data mining researchers to further explore the impact and novel research issues of these algorithms

Principles of Data Mining David J. Hand, Heikki Mannila, Padhraic Smyth, 2001-08-17 The first truly interdisciplinary text on data mining blending the contributions of information science computer science and statistics The growing interest in data mining is motivated by a common problem across disciplines how does one store access model and ultimately describe and understand very large data sets Historically different aspects of data mining have been addressed independently by different disciplines This is the first truly interdisciplinary text on data mining blending the contributions of information science computer science and statistics The book consists of three sections The first foundations provides a tutorial overview of the principles underlying data mining algorithms and their application The presentation emphasizes intuition rather than rigor The second section data mining algorithms shows how algorithms are constructed to solve specific problems in a principled manner The algorithms covered include trees and rules for classification and regression association rules belief networks classical statistical models nonlinear models such as neural networks and local memory based models The third section shows how all of the preceding analysis fits together when applied to real world data mining problems Topics include the role of metadata how to handle missing data and data preprocessing

Pattern Recognition Algorithms for Data Mining Sankar K. Pal, Pabitra Mitra, 2004-05-27 This valuable text addresses different pattern recognition PR tasks in a unified framework with both theoretical and experimental results Tasks covered include data condensation feature selection case generation clustering classification and rule generation and evaluation Organized into eight chapters the book begins by introducing PR data mining and knowledge discovery concepts The authors proceed to analyze the tasks of multi scale data condensation and dimensionality reduction Then they explore the problem of learning with support vector machine SVM and conclude by highlighting the significance of granular computing for different mining tasks in a soft paradigm

Data

Mining Techniques Arun K. Pujari, 2001 This Book Addresses All The Major And Latest Techniques Of Data Mining And Data Warehousing It Deals With The Latest Algorithms For Discussing Association Rules Decision Trees Clustering Neural Networks And Genetic Algorithms The Book Also Discusses The Mining Of Web Data Temporal And Text Data It Can Serve As A Textbook For Students Of Computer Science Mathematical Science And Management Science And Also Be An Excellent Handbook For Researchers In The Area Of Data Mining And Warehousing *Data Mining Algorithms* Pawel

Cichosz, 2014-11-10 Data Mining Algorithms is a practical technically oriented guide to data mining algorithms that covers the most important algorithms for building classification regression and clustering models as well as techniques used for attribute selection and transformation model quality evaluation and creating model ensembles The author presents many of the important topics and methodologies widely used in data mining whilst demonstrating the internal operation and usage of data mining algorithms using examples in R **Automating the Design of Data Mining Algorithms** Gisele L. Pappa, Alex

Freitas, 2009-10-27 Data mining is a very active research area with many successful real world applications It consists of a set of concepts and methods used to extract interesting or useful knowledge or patterns from real world datasets providing valuable support for decision making in industry business government and science Although there are already many types of data mining algorithms available in the literature it is still difficult for users to choose the best possible data mining algorithm for their particular data mining problem In addition data mining algorithms have been manually designed therefore they incorporate human biases and preferences This book proposes a new approach to the design of data mining algorithms instead of relying on the slow and ad hoc process of manual algorithm design this book proposes systematically automating the design of data mining algorithms with an evolutionary computation approach More precisely we propose a genetic programming system a type of evolutionary computation method that evolves computer programs to automate the design of rule induction algorithms a type of classification method that discovers a set of classification rules from data We focus on genetic programming in this book because it is the paradigmatic type of machine learning method for automating the generation of programs and because it has the advantage of performing a global search in the space of candidate solutions data mining algorithms in our case but in principle other types of search methods for this task could be investigated in the future

Metalearning Pavel Brazdil, Christophe Giraud Carrier, Carlos Soares, Ricardo Vilalta, 2008-11-18 Metalearning is the study of principled methods that exploit metaknowledge to obtain efficient models and solutions by adapting machine learning and data mining processes While the variety of machine learning and data mining techniques now available can in principle provide good model solutions a methodology is still needed to guide the search for the most appropriate model in an efficient way Metalearning provides one such methodology that allows systems to become more effective through experience This book discusses several approaches to obtaining knowledge concerning the performance of machine learning and data mining algorithms It shows how this knowledge can be reused to select combine compose and adapt both algorithms and

models to yield faster more effective solutions to data mining problems It can thus help developers improve their algorithms and also develop learning systems that can improve themselves The book will be of interest to researchers and graduate students in the areas of machine learning data mining and artificial intelligence **Data Mining and Knowledge**

Discovery with Evolutionary Algorithms Alex A. Freitas, 2002-08-21 This book integrates two areas of computer science namely data mining and evolutionary algorithms Both these areas have become increasingly popular in the last few years and their integration is currently an active research area In general data mining consists of extracting knowledge from data The motivation for applying evolutionary algorithms to data mining is that evolutionary algorithms are robust search methods which perform a global search in the space of candidate solutions This book emphasizes the importance of discovering comprehensible interesting knowledge which is potentially useful for intelligent decision making The text explains both basic concepts and advanced topics Recent Advances in Data Mining of Enterprise Data T. Warren Liao, Evangelos

Triantaphyllou, 2008-01-15 The main goal of the new field of data mining is the analysis of large and complex datasets Some very important datasets may be derived from business and industrial activities This kind of data is known as OC enterprise data OCO The common characteristic of such datasets is that the analyst wishes to analyze them for the purpose of designing a more cost effective strategy for optimizing some type of performance measure such as reducing production time improving quality eliminating wastes or maximizing profit Data in this category may describe different scheduling scenarios in a manufacturing environment quality control of some process fault diagnosis in the operation of a machine or process risk analysis when issuing credit to applicants management of supply chains in a manufacturing system or data for business related decision making Sample Chapter s Foreword 37 KB Chapter 1 Enterprise Data Mining A Review and Research Directions 655 KB Contents Enterprise Data Mining A Review and Research Directions T W Liao Application and Comparison of Classification Techniques in Controlling Credit Risk L Yu et al Predictive Classification with Imbalanced Enterprise Data S Daskalaki et al Data Mining Applications of Process Platform Formation for High Variety Production J Jiao Multivariate Control Charts from a Data Mining Perspective G C Porzio Maintenance Planning Using Enterprise Data Mining L P Khoo et al Mining Images of Cell Based Assays P Perner Support Vector Machines and Applications T B Trafalis A Survey of Manifold Based Learning Methods X Huo et al and other papers Readership Graduate students in engineering computer science and business schools researchers and practioners of data mining with emphazis of enterprise data mining **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

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