Alex A. Freitas

Data Mining and Knowledge Discovery with Evolutionary Algorithms

Springer

Data Mining And Knowledge Discovery With Evolutionary Algorithms

Freitas Alex A.

Data Mining And Knowledge Discovery With Evolutionary Algorithms:

   Data Mining and Knowledge Discovery with Evolutionary Algorithms Alex A. Freitas,2013-11-11 This book addresses the integration of two areas of computer science namely data mining and evolutionary algorithms Both these areas have become increas ingly popular in the last few years and their integration is currently an area of active research In essence data mining consists of extracting valid comprehensible and in teresting knowledge from data Data mining is actually an interdisciplinary field since there are many kinds of methods that can be used to extract knowledge from data Arguably data mining mainly uses methods from machine learning a branch of artificial intelligence and statistics including statistical pattern recog nition Our discussion of data mining and evolutionary algorithms is primarily based on machine learning concepts and principles In particular in this book we emphasize the importance of discovering comprehensible interesting knowledge which the user can potentially use to make intelligent decisions In a nutshell 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 rules or another form of knowl edge representation In contrast most rule induction methods perform a local greedy search in the space of candidate rules Intuitively the global search of evolutionary algorithms can discover interesting rules and patterns that would be missed by the greedy search   Data Mining And Knowledge Discovery With Evolutionary Algorithms Freitas Alex A.,2007-10-01   Multi-Objective Evolutionary Algorithms for Knowledge Discovery from Databases Ashish Ghosh,Satchidananda Dehuri,Susmita Ghosh,2008-02-28 The present volume provides a collection of seven articles containing new and high quality research results demonstrating the significance of Multi objective Evolutionary Algorithms MOEA for data mining tasks in Knowledge Discovery from Databases KDD These articles are written by leading experts around the world It is shown how the different MOEAs can be utilized both in individual and integrated manner in various ways to efficiently mine data from large databases   **Special Issue on Data Mining and Knowledge Discovery with Evolutionary Algorithms** Alex A. Freitas,2003   *Evolutionary Computation in Data Mining* Ashish Ghosh,2009-09-02 Data mining DM consists of extracting interesting knowledge from re world large and is the core step of a broader process called the knowledge discovery from databases KDD process In addition to the DM step which actually extracts knowledge from data the KDD process includes several preprocessing or data preparation and post processing or knowledge refinement steps The goal of data preprocessing methods is to transform the data to facilitate the application of a or several given DM algorithm s whereas the goal of knowledge refinement methods is to validate and refine discovered knowledge Ideally discovered knowledge should be not only accurate but also comprehensible and interesting to the user The total process is highly computation intensive The idea of automatically discovering knowledge from databases is a very attractive and challenging task both for academia and for industry Hence there has been a growing interest in data mining in several AI related areas including evolutionary algorithms EAs The main motivation for applying EAs to KDD tasks

is that they are robust and adaptive search methods which perform a global search in the space of candidate solutions for instance rules or another form of knowledge representation **Evolutionary Computation in Data Mining** Ashish Ghosh,2004-10-18 Data mining DM consists of extracting interesting knowledge from re world large and is the core step of a broader process called the knowledge discovery from databases KDD process In addition to the DM step which actually extracts knowledge from data the KDD process includes several preprocessing or data preparation and post processing or knowledge refinement steps The goal of data preprocessing methods is to transform the data to facilitate the application of a or several given DM algorithm s whereas the goal of knowledge refinement methods is to validate and refine discovered knowledge Ideally discovered knowledge should be not only accurate but also comprehensible and interesting to the user The total process is highly computation intensive The idea of automatically discovering knowledge from databases is a very attractive and challenging task both for academia and for industry Hence there has been a growing interest in data mining in several AI related areas including evolutionary algorithms EAs The main motivation for applying EAs to KDD tasks is that they are robust and adaptive search methods which perform a global search in the space of candidate solutions for instance rules or another form of knowledge representation **Advanced Techniques in Knowledge Discovery and Data Mining** Nikhil Pal,2007-12-31 Clear and concise explanations to understand the learning paradigms Chapters written by leading world experts **Soft Computing for Knowledge Discovery and Data Mining** Oded Maimon,Lior Rokach,2007-10-25 Data mining is the science and technology of exploring large and complex bodies of data in order to discover useful patterns It is extremely important because it enables modeling and knowledge extraction from abundant data availability Soft Computing for Knowledge Discovery and Data Mining introduces soft computing methods extending the envelope of problems that data mining can solve efficiently It presents practical soft computing approaches in data mining This edited volume by highly regarded authors includes several contributors of the 2005 Data Mining and Knowledge Discovery Handbook This book was written to provide investigators in the fields of information systems engineering computer science statistics and management with a profound source for the role of soft computing in data mining Not only does this book feature illustrations of various applications including manufacturing medical banking insurance and others but also includes various real world case studies with detailed results Soft Computing for Knowledge Discovery and Data Mining is designed for practitioners and researchers in industry Practitioners and researchers may be particularly interested in the description of real world data mining projects performed with soft computing This book is also suitable as a secondary textbook or reference for advanced level students in information systems engineering computer science and statistics management **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 app cations 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 dif cult for users to choose the best possible data mining algorithm for their particular data mining problem In addition data mining al rithms have been manually designed therefore they incorporate human biases and preferences This book proposes a new approach to the design of data mining algorithms stead 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 p gramming system a type of evolutionary computation method that evolves c puter programs to automate the design of rule induction algorithms a type of cl si cation method that discovers a set of classi cation 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   Principles of Data Mining and Knowledge Discovery Luc de Raedt,Arno Siebes,2003-06-30 This book constitutes the refereed proceedings of the 5th European Conference on Principles of Data Mining and Knowledge Discovery PKDD 2001 held in Freiburg Germany in September 2001 The 40 revised full papers presented together with four invited contributions were carefully reviewed and selected from close to 100 submissions Among the topics addressed are hidden Markov models text summarization supervised learning unsupervised learning demographic data analysis phenotype data mining spatio temporal clustering Web usage analysis association rules clustering algorithms time series analysis rule discovery text categorization self organizing maps filtering reinforcemant learning support vector machines visual data mining and machine learning   **Advances in Evolutionary Computing** Ashish Ghosh,Shigeyoshi Tsutsui,2012-12-06 The term evolutionary computing refers to the study of the foundations and applications of certain heuristic techniques based on the principles of natural evolution thus the aim of designing evolutionary algorithms EAs is to mimic some of the processes taking place in natural evolution These algo rithms are classified into three main categories depending more on historical development than on major functional techniques In fact their biological basis is essentially the same Hence EC GA uGP u ES uEP EC Evolutionary Computing GA Genetic Algorithms GP Genetic Programming ES Evolution Strategies EP Evolutionary Programming Although the details of biological evolution are not completely understood even nowadays there is some strong experimental evidence to support the following points Evolution is a process operating on chromosomes rather than on organ isms Natural selection is the mechanism that selects organisms which are well adapted to the environment toreproduce more often than those which are not The evolutionary process takes place during the reproduction stage that includes mutation which causes the chromosomes of offspring to be dif ferent from those of the parents and recombination which combines the chromosomes of the parents to produce the offspring Based upon these features the previously mentioned three models of evolutionary

computing were independently and almost simultaneously de veloped An evolutionary algorithm EA is an iterative and stochastic process that operates on a set of individuals called a population **Advanced Methods for Knowledge Discovery from Complex Data** Ujjwal Maulik,Lawrence B. Holder,Diane J. Cook,2006-05-06 The growth in the amount of data collected and generated has exploded in recent times with the widespread automation of various day to day activities advances in high level scienti c and engineering research and the development of e cient data collection tools This has given rise to the need for automa callyanalyzingthedatainordertoextractknowledgefromit therebymaking the data potentially more useful Knowledge discovery and data mining KDD is the process of identifying valid novel potentially useful and ultimately understandable patterns from massive data repositories It is a multi disciplinary topic drawing from s eral elds including expert systems machine learning intelligent databases knowledge acquisition case based reasoning pattern recognition and stat tics Many data mining systems have typically evolved around well organized database systems e g relational databases containing relevant information But more and more one nds relevant information hidden in unstructured text and in other complex forms Mining in the domains of the world wide web bioinformatics geoscienti c data and spatial and temporal applications comprise some illustrative examples in this regard Discovery of knowledge or potentially useful patterns from such complex data often requires the plication of advanced techniques that are better able to exploit the nature and representation of the data Such advanced methods include among o ers graph based and tree based approaches to relational learning sequence mining link based classi cation Bayesian networks hidden Markov models neural networks kernel based methods evolutionary algorithms rough sets and fuzzy logic and hybrid systems Many of these methods are developed in the followingchapters **Transactions on Computational Science XXI** Marina L. Gavrilova,C.J. Kenneth Tan,Ajith Abraham,2013-11-25 This the 21st issue of the Transactions on Computational Science journal edited by Ajith Abraham is devoted to the topic of nature inspired computing and applications The 15 full papers included in the volume focus on the topics of neurocomputing evolutionary algorithms swarm intelligence artificial immune systems membrane computing computing with words artificial life and hybrid approaches *Advances in Knowledge Discovery and Data Mining* ,2005

Applications of Multi-objective Evolutionary Algorithms Carlos A. Coello Coello,Gary B. Lamont,2004 Detailed MOEA applications discussed by international experts State of the art practical insights in tackling statistical optimization with MOEAs A unique monograph covering a wide spectrum of real world applications Step by step discussion of MOEA applications in a variety of domains **Principles of Data Mining and Knowledge Discovery** ,2000 **Data Mining and Knowledge Discovery** ,2002 *Medical Data Mining and Knowledge Discovery* Krzysztof J. Cios,2001-01-12 Modern medicine generates almost daily huge amounts of heterogeneous data For example medical data may contain SPECT images signals like ECG clinical information like temperature cholesterol levels etc as well as the physician s interpretation Those who deal with such data understand that there is a widening gap between data collection and data comprehension

Computerized techniques are needed to help humans address this problem This volume is devoted to the relatively young and growing field of medical data mining and knowledge discovery As more and more medical procedures employ imaging as a preferred diagnostic tool there is a need to develop methods for efficient mining in databases of images Other significant features are security and confidentiality concerns Moreover the physician s interpretation of images signals or other technical data is written in unstructured English which is very difficult to mine This book addresses all these specific features

Pattern Mining with Evolutionary Algorithms Sebastián Ventura,José María Luna,2016-06-13 This book provides a comprehensive overview of the field of pattern mining with evolutionary algorithms To do so it covers formal definitions about patterns patterns mining type of patterns and the usefulness of patterns in the knowledge discovery process As it is described within the book the discovery process suffers from both high runtime and memory requirements especially when high dimensional datasets are analyzed To solve this issue many pruning strategies have been developed Nevertheless with the growing interest in the storage of information more and more datasets comprise such a dimensionality that the discovery of interesting patterns becomes a challenging process In this regard the use of evolutionary algorithms for mining pattern enables the computation capacity to be reduced providing sufficiently good solutions This book offers a survey on evolutionary computation with particular emphasis on genetic algorithms and genetic programming Also included is an analysis of the set of quality measures most widely used in the field of pattern mining with evolutionary algorithms This book serves as a review of the most important evolutionary algorithms for pattern mining It considers the analysis of different algorithms for mining different type of patterns and relationships between patterns such as frequent patterns infrequent patterns patterns defined in a continuous domain or even positive and negative patterns A completely new problem in the pattern mining field mining of exceptional relationships between patterns is discussed In this problem the goal is to identify patterns which distribution is exceptionally different from the distribution in the complete set of data records Finally the book deals with the subgroup discovery task a method to identify a subgroup of interesting patterns that is related to a dependent variable or target attribute This subgroup of patterns satisfies two essential conditions interpretability and interestingness   *Data Mining for a Web-based Educational System* Behrooz Minaei-Bidgoli,2004

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