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Data Mining and Knowledge Discovery with Evolutionary Algorithms



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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 increasingly 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 interesting 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 recognition 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 knowledge 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 real 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 algorithms 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, 2006-06-22 Data mining DM consists of extracting interesting knowledge from real 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 real 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 *Intelligent Data Mining* Da Ruan, Guoqing Chen, Etienne E. Kerre, Geert Wets, 2005-08-24 Intelligent Data Mining Techniques and Applications is an organized edited collection of contributed chapters covering basic knowledge for intelligent systems and data mining applications in economic and management industrial engineering and other related industrial applications The main objective of this book is to gather a number of peer reviewed high quality contributions in the relevant topic areas The focus is especially on those chapters that provide theoretical analytical solutions to the problems

of real interest in intelligent techniques possibly combined with other traditional tools for data mining and the corresponding applications to engineers and managers of different industrial sectors Academic and applied researchers and research students working on data mining can also directly benefit from this book *Data Warehousing and Data Mining* Mr. Vineeth Dasary, Mr. Andiappan Ananth, Kamlesh W. Kelwade, P. Kalidas ,2025-08-28 Data Warehousing and Data Mining are key components of data analytics that enable organizations to store manage and extract valuable insights from large volumes of data A Data Warehouse is a centralized repository that integrates data from multiple sources providing a unified and consistent view for analysis and decision making It supports efficient querying reporting and business intelligence operations

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