
Introduction to Soft Computing for Knowledge Discovery and Data Mining

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Summary: In this chapter we introduce the Soft Computing areas for Data Mining and the Knowledge Discovery Process, discuss the need for plurality of methods, and present the book organization and abstracts.

1 Introduction

Data Mining is the science, art and technology of exploring data in order to discover insightful unknown patterns. It is a part of the overall process of Knowledge Discovery in Databases (KDD). The accessibility and abundance of information today makes data mining a matter of considerable importance and necessity.

Soft computing is a collection of new techniques in artificial intelligence, which exploit the tolerance for imprecision, uncertainty and partial truth to achieve tractability, robustness and low solution cost. Given the history and recent growth of the field, it is not surprising that several mature soft computing methods are now available to the practitioner, including: fuzzy logic, artificial neural networks, genetic algorithms, and swarm intelligence. The aims of this book are to present and explain the important role of soft computing methods in data mining and knowledge discovery.

The unique contributions of this book is in the introduction of soft computing as a viable approach for data mining theory and practice, the detailed descriptions of novel soft-computing approaches in data mining, and the illustrations of various applications solved in soft computing techniques, including: Manufacturing, Medical, Banking, Insurance, Business Intelligence and others. The book does not include some of the most standard techniques in Data Mining, such as Decision Trees (the reader is welcome to our new book, from 2007, dedicated entirely to Decision Trees). The book include the leading soft

Soft Computing For Knowledge Discovery And Data Mining

Honghua Tan



Soft Computing For Knowledge Discovery And Data Mining:

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. Knowledge Discovery and Data Mining

Honghua Tan, 2012-02-04 The volume includes a set of selected papers extended and revised from the 4th International conference on Knowledge Discovery and Data Mining, March 1-2, 2011, Macau, China. This volume is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of knowledge discovery and data mining and learning to disseminate their latest research results and exchange views on the future research directions of these fields. 108 high quality papers are included in the volume. **Data Mining** Sushmita Mitra, Tinku Acharya, 2005-01-07 First title to ever present soft computing approaches and their application in data mining along with the traditional hard computing approaches. Addresses the principles of multimedia data compression techniques for image, video, text, and their role in data mining. Discusses principles and classical algorithms on string matching and their role in data mining. **Rough**

- Granular Computing in Knowledge Discovery and Data Mining J. Stepaniuk, 2009-01-29 This book covers methods based on a combination of granular computing, rough sets, and knowledge discovery in data mining. KDD. The discussion of KDD foundations based on the rough set approach and granular computing feature illustrative applications. **Neural Networks and Soft Computing** Leszek Rutkowski, 2013-03-20 This volume presents new trends and developments in soft computing techniques. Topics include neural networks, fuzzy systems, evolutionary computation, knowledge discovery, rough sets, and hybrid methods. It also covers various applications of soft computing techniques in economics, mechanics, medicine, automatics, and image processing. The book contains contributions from internationally recognized scientists such as Zadeh, Bubnicki, Pawlak, Amari, Batyrshin, Hirota, Koczy, Kosinski, Novak, S. Y. Lee, Pedrycz, Raudys, Setiono, Sincak, Strumillo, Takagi, Usui.

Wilamowski and Zurada An excellent overview of soft computing methods and their applications **Soft Computing for Data Mining Applications** K. R. Venugopal, K. G. Srinivasa, L. M. Patnaik, 2009-02-24 The authors have consolidated their research work in this volume titled Soft Computing for Data Mining Applications The monograph gives an insight into the research in the fields of Data Mining in combination with Soft Computing methodologies In these days the data continues to grow exponentially Much of the data is implicitly or explicitly imprecise Database discovery seeks to discover noteworthy unrecognized associations between the data items in the existing database The potential of discovery comes from the realization that alternate contexts may reveal additional valuable information The rate at which the data is stored is growing at a phenomenal rate As a result traditional ad hoc mixtures of statistical techniques and data management tools are no longer adequate for analyzing this vast collection of data Several domains where large volumes of data are stored in centralized or distributed databases include applications like in electronic commerce bio informatics computer security Web intelligence intelligent learning database systems nanotechnology marketing healthcare telecommunications and other fields Efficient tools and algorithms for knowledge discovery in large data sets have been devised during the recent years These methods exploit the capability of computers to search huge amounts of data in a fast and effective manner However the data to be analyzed is imprecise and affected with uncertainty In the case of heterogeneous data sources such as text and video the data might moreover be ambiguous and partly conflicting Besides patterns and relationships of interest are usually approximate Thus in order to make the information mining process more robust it requires tolerance toward imprecision uncertainty and exceptions **Foundations of Data Mining and Knowledge Discovery** Tsau Young Lin, Setsuo Ohsuga, Churn-Jung Liao, Xiaohua Hu, Shusaku Tsumoto, 2005-09-02 Foundations of Data Mining and Knowledge Discovery contains the latest results and new directions in data mining research Data mining which integrates various technologies including computational intelligence database and knowledge management machine learning soft computing and statistics is one of the fastest growing fields in computer science Although many data mining techniques have been developed further development of the field requires a close examination of its foundations This volume presents the results of investigations into the foundations of the discipline and represents the state of the art for much of the current research This book will prove extremely valuable and fruitful for data mining researchers no matter whether they would like to uncover the fundamental principles behind data mining or apply the theories to practical applications *Data Mining and Computational Intelligence* Abraham Kandel, Mark Last, Horst Bunke, 2013-11-11 Many business decisions are made in the absence of complete information about the decision consequences Credit lines are approved without knowing the future behavior of the customers stocks are bought and sold without knowing their future prices parts are manufactured without knowing all the factors affecting their final quality etc All these cases can be categorized as decision making under uncertainty Decision makers human or automated can handle uncertainty in different ways Deferring the decision due to the lack of sufficient information

may not be an option especially in real time systems Sometimes expert rules based on experience and intuition are used Decision tree is a popular form of representing a set of mutually exclusive rules An example of a two branch tree is if a credit applicant is a student approve otherwise decline Expert rules are usually based on some hidden assumptions which are trying to predict the decision consequences A hidden assumption of the last rule set is a student will be a profitable customer Since the direct predictions of the future may not be accurate a decision maker can consider using some information from the past The idea is to utilize the potential similarity between the patterns of the past e g most students used to be profitable and the patterns of the future e g students will be profitable

Data Mining and Knowledge Discovery Handbook Oded Maimon, Lior Rokach, 2006-05-28 Data Mining and Knowledge Discovery Handbook organizes all major concepts theories methodologies trends challenges and applications of data mining DM and knowledge discovery in databases KDD into a coherent and unified repository This book first surveys then provides comprehensive yet concise algorithmic descriptions of methods including classic methods plus the extensions and novel methods developed recently This volume concludes with in depth descriptions of data mining applications in various interdisciplinary industries including finance marketing medicine biology engineering telecommunications software and security Data Mining and Knowledge Discovery Handbook is designed for research scientists and graduate level students in computer science and engineering This book is also suitable for professionals in fields such as computing applications information systems management and strategic research management

Recent Advances on Soft Computing and Data Mining Tutut Herawan, Rozaida Ghazali, Nazri Mohd Nawi, Mustafa Mat Deris, 2016-12-27 This book provides a comprehensive introduction and practical look at the concepts and techniques readers need to get the most out of their data in real world large scale data mining projects It also guides readers through the data analytic thinking necessary for extracting useful knowledge and business value from the data The book is based on the Soft Computing and Data Mining SCDM 16 conference which was held in Bandung Indonesia on August 18th 20th 2016 to discuss the state of the art in soft computing techniques and offer participants sufficient knowledge to tackle a wide range of complex systems The scope of the conference is reflected in the book which presents a balance of soft computing techniques and data mining approaches The two constituents are introduced to the reader systematically and brought together using different combinations of applications and practices It offers engineers data analysts practitioners scientists and managers the insights into the concepts tools and techniques employed and as such enables them to better understand the design choice and options of soft computing techniques and data mining approaches that are necessary to thrive in this data driven ecosystem

Whispering the Secrets of Language: An Emotional Journey through **Soft Computing For Knowledge Discovery And Data Mining**

In a digitally-driven world wherever screens reign great and quick communication drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within phrases usually get unheard. However, located within the pages of **Soft Computing For Knowledge Discovery And Data Mining** a fascinating fictional prize sporting with fresh feelings, lies an exceptional quest waiting to be undertaken. Composed by an experienced wordsmith, this enchanting opus attracts viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the very fabric of every word. Within the psychological depths with this moving evaluation, we will embark upon a heartfelt exploration of the book is primary styles, dissect their fascinating writing model, and fail to the effective resonance it evokes heavy within the recesses of readers hearts.

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