
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

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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, 2003-09-25 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.

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.

Principles of Data Mining and Knowledge Discovery Jan Zytkow, Jan Rauch, 2004-06-08 This book constitutes the refereed proceedings of the Third European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD 99) held in Prague, Czech Republic in September 1999. The 28 revised full papers and 48 poster presentations were carefully reviewed and selected from 106 full

papers submitted The papers are organized in topical sections on time series applications taxonomies and partitions logic methods distributed and multirelational databases text mining and feature selection rules and induction and interesting and unusual issues

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

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 elds of Data Mining in combination with Soft Computing methodologies In these days the data continues to grow ponentially 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 electronic commerce bio formatics computer security Web intelligence intelligent learning database systems nance marketing healthcare telecommunications and other elds 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 certainty 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

New Directions in Rough Sets, Data Mining, and Granular-Soft Computing Ning Zhong, Setsuo

Ohsuga,2004-06-22 This book constitutes the refereed proceedings of the 7th International Workshop on Rough Sets Fuzzy Sets Data Mining and Granular Soft Computing RSFDGrC 99 held in Yamaguchi Japan in November 1999 The 45 revised regular papers and 15 revised short papers presented together with four invited contributions were carefully reviewed and selected from 89 submissions The book is divided into sections on rough computing foundations and applications rough set theory and applications fuzzy set theory and applications nonclassical logic and approximate reasoning information granulation and granular computing data mining and knowledge discovery machine learning and intelligent agents and systems

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

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