

COMPUTATIONAL INTELLIGENCE IN DATA MINING



Daniel Joseph Kovach, Fadzilah Siraj et.al

Data Mining With Computational Intelligence Data Mining With Computational Intelligence

**Himansu Sekhar Behera, Durga Prasad
Mohapatra**



Data Mining With Computational Intelligence Data Mining With Computational Intelligence:

Data Mining with Computational Intelligence Lipo Wang,Xiuju Fu,2005-12-08 Finding information hidden in data is as theoretically difficult as it is practically important With the objective of discovering unknown patterns from data the methodologies of data mining were derived from statistics machine learning and artificial intelligence and are being used successfully in application areas such as bioinformatics banking retail and many others Wang and Fu present in detail the state of the art on how to utilize fuzzy neural networks multilayer perceptron neural networks radial basis function neural networks genetic algorithms and support vector machines in such applications They focus on three main data mining tasks data dimensionality reduction classification and rule extraction The book is targeted at researchers in both academia and industry while graduate students and developers of data mining systems will also profit from the detailed algorithmic descriptions *Data Mining and Computational Intelligence* Abraham Kandel,Mark Last,Horst Bunke,2014-01-15 **Data Mining With Computational Intelligence** Wang,2009-10-01 **Computational Intelligence in Data Mining** G. Della Riccia,Giacomo Della Riccia,Rudolf Kruse,Hans-J. Lenz,2000-05-31 The book aims to merge Computational Intelligence with Data Mining which are both hot topics of current research and industrial development Computational Intelligence incorporates techniques like data fusion uncertain reasoning heuristic search learning and soft computing Data Mining focuses on unscrambling unknown patterns or structures in very large data sets Under the headline Discovering Structures in Large Databases the book starts with a unified view on Data Mining and Statistics A System Point of View Two special techniques follow Subgroup Mining and Data Mining with Possibilistic Graphical Models Data Fusion and Possibilistic or Fuzzy Data Analysis is the next area of interest An overview of possibilistic logic nonmonotonic reasoning and data fusion is given the coherence problem between data and non linear fuzzy models is tackled and outlier detection based on learning of fuzzy models is studied In the domain of Classification and Decomposition adaptive clustering and visualisation of high dimensional data sets is introduced Finally in the section Learning and Data Fusion learning of special multi agents of virtual soccer is considered The last topic is on data fusion based on stochastic models *Computational Intelligence in Data Mining - Volume 2* Lakhmi C. Jain,Himansu Sekhar Behera,Jyotsna Kumar Mandal,Durga Prasad Mohapatra,2014-12-10 The contributed volume aims to explicate and address the difficulties and challenges that of seamless integration of the two core disciplines of computer science i e computational intelligence and data mining Data Mining aims at the automatic discovery of underlying non trivial knowledge from datasets by applying intelligent analysis techniques The interest in this research area has experienced a considerable growth in the last years due to two key factors a knowledge hidden in organizations databases can be exploited to improve strategic and managerial decision making b the large volume of data managed by organizations makes it impossible to carry out a manual analysis The book addresses different methods and techniques of integration for enhancing the overall goal of data mining The book helps to disseminate the knowledge about some innovative

active research directions in the field of data mining machine and computational intelligence along with some current issues and applications of related topics **Computational Intelligence in Data Mining** Himansu Sekhar Behera, Durga Prasad Mohapatra, 2017-05-19 The book presents high quality papers presented at the International Conference on Computational Intelligence in Data Mining ICCIDM 2016 organized by School of Computer Engineering Kalinga Institute of Industrial Technology KIIT Bhubaneswar Odisha India during December 10 11 2016 The book disseminates the knowledge about innovative active research directions in the field of data mining machine and computational intelligence along with current issues and applications of related topics The volume aims to explicate and address the difficulties and challenges that of seamless integration of the two core disciplines of computer science **Computational Intelligence in Data Mining**

Himansu Sekhar Behera, Janmenjoy Nayak, Bighnaraj Naik, Ajith Abraham, 2018-07-03 The International Conference on Computational Intelligence in Data Mining ICCIDM after three successful versions has reached to its fourth version with a lot of aspiration The best selected conference papers are reviewed and compiled to form this volume The proceedings discuss the latest solutions scientific results and methods in solving intriguing problems in the fields of data mining computational intelligence big data analytics and soft computing The volume presents a sneak preview into the strengths and weakness of trending applications and research findings in the field of computational intelligence and data mining along with related field

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 *Foundations of Computational Intelligence* Ajith Abraham, Aboul-Ella Hassanien, André Ponce de Leon F. de Carvalho, Vaclav Sná#el, 2010-10-28 Foundations of Computational Intelligence Volume 6 Data Mining Theoretical Foundations and Applications Finding information hidden in data is as theoretically difficult as it is practically important With the objective of discovering unknown patterns from data the methodologies of data mining were derived from statistics machine learning and artificial intelligence and are being used successfully in application areas such as bioinformatics business health care banking retail and many others Advanced representation schemes and computational intelligence techniques such as rough sets neural networks decision trees fuzzy logic evolutionary algorithms artificial immune systems swarm intelligence reinforcement learning association rule mining Web intelligence paradigms etc have

proved valuable when they are applied to Data Mining problems. Computational tools or solutions based on intelligent systems are being used with great success in Data Mining applications. It is also observed that strong scientific advances have been made when issues from different research areas are integrated. This Volume comprises of 15 chapters including an overview chapter providing an up to date and state of the research on the applications of Computational Intelligence techniques for Data Mining. The book is divided into 3 parts: Part I Data Click Streams and Temporal Data Mining, Part II Text and Rule Mining, Part III Applications. Part I on Data Click Streams and Temporal Data Mining contains four chapters that describe several approaches in Data Click Streams and Temporal Data Mining.

Data Mining and Computational Intelligence
Abraham Kandel, Mark Last, Horst Bunke, 2001-03-13

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.

The Enigmatic Realm of **Data Mining With Computational Intelligence** **Data Mining With Computational Intelligence**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Data Mining With Computational Intelligence** **Data Mining With Computational Intelligence** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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