

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

Giacomo Della Riccia,Rudolf Kruse,Hans-J. Lenz,2014-05-04 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

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 - 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

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

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 discusses 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

Computational Intelligence in Data Mining Janmenjoy Nayak, H.S. Behera, Bighnaraj Naik, S. Vimal, Danilo Pelusi, 2022-05-06 This book addresses different methods and techniques of integration for enhancing the overall goal of data mining The book is a collection of high quality peer reviewed research papers presented in the Sixth International Conference on Computational Intelligence in Data Mining ICCIDM 2021 held at Aditya Institute of Technology and Management Tekkali Andhra Pradesh India during December 11-12, 2021 The book addresses the difficulties and challenges for the seamless integration of two core disciplines of computer science i.e computational intelligence and 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 *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 Applying Computational Intelligence Arthur Kordon, 2009-12-10 In theory there is no difference between theory and practice But in practice there is Jan L A van de Snepscheut The flow of academic ideas in the area of computational intelligence has penetrated industry with tremendous speed and persistence Thousands of applications have proved the practical potential of fuzzy logic neural networks evolutionary computation swarm

intelligence and intelligent agents even before their theoretical foundation is completely understood And the popularity is rising Some software vendors have pronounced the new machine learning gold rush to Transfer Data into Gold New buzzwords like data mining genetic algorithms and swarm optimization have enriched the top executives vocabulary to make them look more visionary for the 21st century The phrase fuzzy math became political jargon after being used by US President George W Bush in one of the election debates in the campaign in 2000 Even process operators are discussing the performance of neural networks with the same passion as the performance of the Dallas Cowboys However for most of the engineers and scientists introducing computational intelligence technologies into practice looking at the growing number of new approaches and understanding their theoretical principles and potential for value creation becomes a more and more difficult task

Computational Intelligence in Data Mining—Volume 2 Himansu Sekhar Behera,Durga Prasad Mohapatra,2015-12-09 The book is a collection of high quality peer reviewed research papers presented in the Second International Conference on Computational Intelligence in Data Mining ICCIDM 2015 held at Bhubaneswar Odisha India during 5 6 December 2015 The two volume Proceedings address the difficulties and challenges for the seamless integration of two core disciplines of computer science i e computational intelligence and data mining 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,Janmenjoy Nayak,Bighnaraj Naik,Danilo Pelusi,2019-08-18 This proceeding discuss the latest solutions scientific findings and methods for solving intriguing problems in the fields of data mining computational intelligence big data analytics and soft computing This gathers outstanding papers from the fifth International Conference on Computational Intelligence in Data Mining ICCIDM and offer a sneak preview of the strengths and weaknesses of trending applications together with exciting advances in computational intelligence data mining and related fields

Advanced Data Mining Tools and Methods for Social Computing Sourav De,Sandip Dey,Siddhartha Bhattacharyya,Surbhi Bhatia Khan,2022-01-14 Advanced Data Mining Tools and Methods for Social Computing explores advances in the latest data mining tools methods algorithms and the architectures being developed specifically for social computing and social network analysis The book reviews major emerging trends in technology that are supporting current advancements in social networks including data mining techniques and tools It also aims to highlight the advancement of conventional approaches in the field of social networking Chapter coverage includes reviews of novel techniques and state of the art advances in the area of data mining machine learning soft computing techniques and their applications in the field of social network analysis Provides insights into the latest research trends in social network analysis Covers a broad range of data mining tools and methods for social computing and analysis Includes practical examples and case studies across a range of tools and methods Features

coding examples and supplementary data sets in every chapter *Information Engineering and Data Mining* Hamid Arabnia, 2012-08-28 Information Engineering and Data Mining is a comprehensive look at information engineering knowledge engineering and data mining The book covers selected areas of machine learning and soft computing as they relate to information engineering and data mining Coverage of knowledge management includes retrieval structures and reliability Coverage of Data Mining includes spatial data mining visual data mining and visualization of data mining This book will consist of invited papers as well as extended conference papers Computational Intelligence in Data Mining—Volume 1 Himansu Sekhar Behera, Durga Prasad Mohapatra, 2015-12-08 The book is a collection of high quality peer reviewed research papers presented in the Second International Conference on Computational Intelligence in Data Mining ICCIDM 2015 held at Bhubaneswar Odisha India during 5 6 December 2015 The two volume Proceedings address the difficulties and challenges for the seamless integration of two core disciplines of computer science i e computational intelligence and data mining 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 - Volume 1 Lakhmi C. Jain, Himansu Sekhar Behera, Jyotsna Kumar Mandal, Durga Prasad Mohapatra, 2015-01-08 The contributed volume aims to explicate and address the difficulties and challenges for the seamless integration of 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 *Foundations of Computational Intelligence* Ajith Abraham, Aboul-Ella Hassanien, André Ponce de Leon F. de Carvalho, 2009-04-21 Foundations of Computational Intelligence Volume 4 Bio Inspired Data Mining Theoretical Foundations and Applications Recent advances in the computing and electronics technology particularly in sensor devices databases and distributed systems are leading to an exponential growth in the amount of data stored in databases It has been estimated that this amount doubles every 20 years For some applications this increase is even steeper Databases storing DNA sequence for example are doubling their size every 10 months This growth is occurring in several applications areas besides bioinformatics like financial transactions government data environmental monitoring satellite and medical images security data and web As large organizations recognize the high

value of data stored in their databases and the importance of their data collection to support decision making there is a clear demand for sophisticated Data Mining tools. Data mining tools play a key role in the extraction of useful knowledge from databases. They can be used either to confirm a particular hypothesis or to automatically find patterns. In the second case, which is related to this book, the goal may be either to describe the main patterns present in a dataset, what is known as descriptive Data Mining, or to find patterns able to predict behaviour of specific attributes or features, known as predictive Data Mining. While the first goal is associated with tasks like clustering, summarization and association, the second is found in classification and regression problems.

Computational Intelligence in Data Mining - Volume 3 Lakhmi C. Jain, Himansu Sekhar Behera, Jyotsna Kumar Mandal, Durga Prasad Mohapatra, 2014-12-11. The contributed volume aims to explicate and address the difficulties and challenges for the seamless integration of 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.

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