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# Data Mining: Foundations and Intelligent Paradigms

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# Data Mining Foundations And Intelligent Paradigms

## Volume 3

**José J. Pazos Arias, Ana Fernández  
Vilas, Rebeca P. Díaz Redondo**



### **Data Mining Foundations And Intelligent Paradigms Volume 3:**

Data Mining: Foundations and Intelligent Paradigms Dawn E. Holmes, Lakhmi C Jain, 2012-01-12 There are many invaluable books available on data mining theory and applications. However, in compiling a volume titled DATA MINING Foundations and Intelligent Paradigms Volume 3 Medical Health Social Biological and other Applications, we wish to introduce some of the latest developments to a broad audience of both specialists and non-specialists in this field. **Data Mining: Foundations and Intelligent Paradigms** Dawn E. Holmes, Lakhmi C Jain, 2012-02-28 There are many invaluable books available on data mining theory and applications. However, in compiling a volume titled DATA MINING Foundations and Intelligent Paradigms Volume 1 Clustering Association and Classification, we wish to introduce some of the latest developments to a broad audience of both specialists and non-specialists in this field. Data Mining: Foundations and Intelligent Paradigms Dawn E. Holmes, Lakhmi C Jain, 2011-11-09 There are many invaluable books available on data mining theory and applications. However, in compiling a volume titled DATA MINING Foundations and Intelligent Paradigms Volume 2 Core Topics including Statistical Time Series and Bayesian Analysis, we wish to introduce some of the latest developments to a broad audience of both specialists and non-specialists in this field. **Decision Making with Imperfect Decision Makers** Tatiana Valentine Guy, Miroslav Kárný, David H. Wolpert, 2011-11-13 Prescriptive Bayesian decision making has reached a high level of maturity and is well supported algorithmically. However, experimental data shows that real decision makers choose such Bayes optimal decisions surprisingly infrequently, often making decisions that are badly sub-optimal. So prevalent is such imperfect decision making that it should be accepted as an inherent feature of real decision makers living within interacting societies. To date, such societies have been investigated from an economic and game-theoretic perspective and even to a degree from a physics perspective. However, little research has been done from the perspective of computer science and associated disciplines like machine learning, information theory, and neuroscience. This book is a major contribution to such research. Some of the particular topics addressed include: How should we formalise rational decision making of a single imperfect decision maker? Does the answer change for a system of imperfect decision makers? Can we extend existing prescriptive theories for perfect decision makers to make them useful for imperfect ones? How can we exploit the relation of these problems to the control under varying and uncertain resources constraints, as well as to the problem of the computational decision making? What can we learn from natural engineered and social systems to help us address these issues? *Handbook on Decision Making* Jie Lu, Lakhmi C Jain, Guangquan Zhang, 2012-03-15 This book presents innovative theories, methodologies, and techniques in the field of risk management and decision making. It introduces new research developments and provides a comprehensive image of their potential applications to readers interested in the area. The collection includes computational intelligence applications in decision making, multi-criteria decision making under risk, risk modelling, forecasting, and evaluation, public security and community safety, risk management in supply chain, and other

business decision making political risk management and disaster response systems The book is directed to academic and applied researchers working on risk management decision making and management information systems *Decision Making in Complex Systems* Marina V. Sokolova, Antonio Fernández Caballero, 2012-01-13 The study of complex systems attracts the attention of many researchers in diverse fields Complex systems are characterized by a high number of entities and a high degree of interactions One of the most important features is that they do not involve a central organizing authority but the various elements that make up the systems are self organized Moreover some complex systems possess an emergency priority climate change and sustainable development research studies of public health ecosystem habitats epidemiology and medicine among others Unfortunately a great number of today's overlapping approaches fail to meet the needs of decision makers when managing complex domains Indeed the design of complex systems often requires the integration of a number of artificial intelligence tools and techniques The problem can be viewed in terms of goals states and actions choosing the best action to move the system toward its desired state or behavior This is why agent based approaches are used to model complex systems The main objective of this book is to bring together existing methods for decision support systems creation within a coherent agent based framework and to provide an interdisciplinary and flexible methodology for modeling complex and systemic domains Stochastic Global Optimization and Its Applications with Fuzzy Adaptive Simulated Annealing Hime Aguiar e Oliveira Junior, Lester Ingber, Antonio Petraglia, Mariane Rembold Petraglia, Maria Augusta Soares Machado, 2012-01-26 Stochastic global optimization is a very important subject that has applications in virtually all areas of science and technology Therefore there is nothing more opportune than writing a book about a successful and mature algorithm that turned out to be a good tool in solving difficult problems Here we present some techniques for solving several problems by means of Fuzzy Adaptive Simulated Annealing Fuzzy ASA a fuzzy controlled version of ASA and by ASA itself ASA is a sophisticated global optimization algorithm that is based upon ideas of the simulated annealing paradigm coded in the C programming language and developed to statistically find the best global fit of a nonlinear constrained non convex cost function over a multi dimensional space By presenting detailed examples of its application we want to stimulate the reader's intuition and make the use of Fuzzy ASA or regular ASA easier for everyone wishing to use these tools to solve problems We kept formal mathematical requirements to a minimum and focused on continuous problems although ASA is able to handle discrete optimization tasks as well This book can be used by researchers and practitioners in engineering and industry in courses on optimization for advanced undergraduate and graduate levels and also for self study Recommender Systems for the Social Web José J. Pazos Arias, Ana Fernández Vilas, Rebeca P. Díaz Redondo, 2012-01-24 The recommendation of products content and services cannot be considered newly born although its widespread application is still in full swing While its growing success in numerous sectors the progress of the Social Web has revolutionized the architecture of participation and relationship in the Web making it necessary to restate recommendation

and reconciling it with Collaborative Tagging as the popularization of authoring in the Web and Social Networking as the translation of personal relationships to the Web Precisely the convergence of recommendation with the above Social Web pillars is what motivates this book which has collected contributions from well known experts in the academy and the industry to provide a broader view of the problems that Social Recommenders might face with If recommender systems have proven their key role in facilitating the user access to resources on the Web when sharing resources has become social it is natural for recommendation strategies in the Social Web era take into account the users point of view and the relationships among users to calculate their predictions This book aims to help readers to discover and understand the interplay among legal issues such as privacy technical aspects such as interoperability and scalability and social aspects such as the influence of affinity trust reputation and likeness when the goal is to offer recommendations that are truly useful to both the user and the provider

**Advances in Robotics and Virtual Reality** Tauseef Gulrez, Aboul Ella Hassanien, 2011-11-13 A beyond human knowledge and reach robotics is strongly involved in tackling challenges of new emerging multidisciplinary fields Together with humans robots are busy exploring and working on the new generation of ideas and problems whose solution is otherwise impossible to find The future is near when robots will sense smell and touch people and their lives Behind this practical aspect of human robotics there is a half a century spanned robotics research which transformed robotics into a modern science The *Advances in Robotics and Virtual Reality* is a compilation of emerging application areas of robotics The book covers robotics role in medicine space exploration and also explains the role of virtual reality as a non destructive test bed which constitutes a premise of further advances towards new challenges in robotics This book edited by two famous scientists with the support of an outstanding team of fifteen authors is a well suited reference for robotics researchers and scholars from related disciplines such as computer graphics virtual simulation surgery biomechanics and neuroscience

*Data mining: foundations and intelligent paradigms* Dawn E. Holmes, Lakhmi C. Jain, **Collaborative Assistive Robot for Mobility Enhancement (CARMEN)** Cristina Urdiales, 2012-02-16 In nowadays aging society many people require mobility assistance Sometimes assistive devices need a certain degree of autonomy when users disabilities difficult manual control However clinicians report that excessive assistance may lead to loss of residual skills and frustration Shared control focuses on deciding when users need help and providing it Collaborative control aims at giving just the right amount of help in a transparent seamless way This book presents the collaborative control paradigm User performance may be indicative of physical cognitive condition so it is used to decide how much help is needed Besides collaborative control integrates machine and user commands so that people contribute to self motion at all times Collaborative control was extensively tested for 3 years using a robotized wheelchair at a rehabilitation hospital in Rome with volunteer inpatients presenting different disabilities ranging from mild to severe We also present a taxonomy of common metrics for wheelchair navigation and tests are evaluated accordingly Obtained results are coherent both from a quantitative and qualitative point of view Industrial

Applications of Evolutionary Algorithms Ernesto Sanchez, Giovanni Squillero, Alberto Tonda, 2012-01-28 Industrial applications of evolutionary algorithms is intended as a resource for both experienced users of evolutionary algorithms and researchers that are beginning to approach these fascinating optimization techniques Experienced users will find interesting details of real world problems advice on solving issues related to fitness computation or modeling and suggestions on how to set the appropriate parameters to reach optimal solutions Beginners will find a thorough introduction to evolutionary computation and a complete presentation of several classes of evolutionary algorithms exploited to solve different problems Inside scholars will find useful examples on how to fill the gap between purely theoretical examples and industrial problems The collection of case studies presented is also extremely appealing for anyone interested in Evolutionary Computation but without direct access to extensive technical literature on the subject After the introduction each chapter in the book presents a test case and is organized so that it can be read independently from the rest all the information needed to understand the problem and the approach is reported in each part Chapters are grouped by three themes of particular interest for real world applications namely prototype based validation reliability and test generation The authors hope that this volume will help to expose the flexibility and efficiency of evolutionary techniques encouraging more companies to adopt them and that most of all you will enjoy your reading

Between Certainty and Uncertainty Ludomir M. Laudański, 2012-10-14 Between Certainty linear transformations and z scored statistics Chapter 2 Grouped data Udney Yule's concept of qualitative and quantitative variables Grouping these two kinds of data Graphical tools Combinatorial rules and qualitative variables Designing frequency histogram Direct and coded evaluation of quantitative data Significance of percentiles Chapter 3 Regression and correlation Geometrical distance and equivalent distances in two orthogonal directions as a prerequisite to the concept of two regression lines Misleading in interpreting two regression lines Derivation of the two regression lines Was Hubble right Hubble's cloud What in fact measures the correlation coefficient Chapter 4 Binomial distribution Middle ages origins of the binomials figurate numbers and combinatorial rules Pascal's Arithmetical Triangle Bernoulli's or Poisson Trials John Arbuthnot curing binomials How Newton taught S Pepys probability Jacob Bernoulli's Weak Law of Large Numbers and others Chapter 5 Normal distribution and binomial heritage Tables of the normal distribution Abraham de Moivre and the second theorem of de Moivre Laplace Chapter 1 Descriptive Statistics Compressing small samples basic averages mean and variance their main properties including God's proof linear transformations and z scored statistics Chapter 2 Grouped data Udney Yule's concept of qualitative and quantitative variables Grouping these two kinds of data Graphical tools Combinatorial rules and qualitative variables Designing frequency histogram Direct and coded evaluation of quantitative data Significance of percentiles Chapter 3 Regression and correlation Geometrical distance and equivalent distances in two orthogonal directions as a prerequisite to the concept of two regression lines Misleading in interpreting two regression lines Derivation of the two regression lines Was Hubble right Hubble's cloud What in fact measures the correlation coefficient Chapter 4 Binomial distribution Middle ages

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Intelligent Paradigms for Assistive and Preventive Healthcare Ajita Ichalkaranje, 2006-04-20 Intelligent paradigms play a tremendous role in the field of Assistive and Preventive Healthcare APH This book presents some of the latest research in the field of APH by most prestigious researchers Coverage includes Multimedia medical informatics Virtual reality Digital talking books Electronic Locomotion Aids and Multimedia Communication Systems for the Blind Information Technology for the Deaf

*Parallel and Distributed Logic Programming* Alakananda Bhattacharya, Amit Konar, Ajit K. Mandal, 2006-07-07 The book *Parallel and Distributed Logic Programming* provides a clear introduction to parallel and distributed approach to logic programming It examines the existing models of distributed logic programming analyses the pros and cons of these models and proposes an alternative framework for distributed logic programming using extended Petri nets The hardwired realization of the Petri net based framework is presented in detail Principles of mapping of a logic program on to the proposed framework are also outlined Finally the book attempts to explore the scope of Petri net models in designing deductive database machines of the next generation

**Gene Expression Programming** Candida Ferreira, 2006-05-24 Candida Ferreira thoroughly describes the basic ideas of gene expression programming GEP and numerous modifications to this powerful new algorithm This monograph provides all the implementation details of GEP so that anyone with elementary programming skills will be able to implement it themselves The book also includes a self contained introduction to this new exciting field of computational intelligence including several new algorithms for decision tree induction data mining classifier systems function finding polynomial induction times series prediction evolution of linking functions automatically defined functions parameter optimization logic synthesis combinatorial optimization and complete neural network induction The book also discusses some important and controversial evolutionary topics that might be refreshing to both evolutionary computer scientists and biologists This second edition has been substantially revised and extended with five new chapters including a new chapter describing two new algorithms for inducing decision trees with nominal and numeric mixed attributes Candida Ferreira thoroughly describes the basic ideas of gene expression programming GEP and numerous modifications to this powerful new algorithm This monograph provides all the implementation details of GEP so that anyone with elementary programming skills will be able to implement it themselves The book also includes a self contained introduction to this new exciting field of computational intelligence including several new algorithms for decision tree induction data mining classifier systems function finding polynomial induction times series prediction evolution of linking functions automatically defined functions

parameter optimization logic synthesis combinatorial optimization and complete neural network induction The book also discusses some important and controversial evolutionary topics that might be refreshing to both evolutionary computer scientists and biologists This second edition has been substantially revised and extended with five new chapters including a new chapter describing two new algorithms for inducing decision trees with nominal and numeric mixed attributes

**Advances in Web Intelligence and Data Mining** Mark Last, 2006-05-23 Today in the middle of the first decade of the 21st century the Internet has become a major communication medium where virtually any kind of content can be transferred instantly and reliably between individual users and entire organizations located in any part of the globe The World Wide Web WWW has a tremendous effect on our daily activities at work and at home Consequently more effective and efficient methods and technologies are needed to make the most of the Web's nearly unlimited potential The new Web related research directions include intelligent methods usually associated with the fields of computational intelligence soft computing and data mining AWIC the Atlantic Web Intelligence Conferences continue to be a forum for exchange of new ideas and novel practical solutions in this new and exciting area The conference was born as an initiative of the WIC Poland and the WIC Spain Research Centers both belonging to the Web Intelligence Consortium WIC <http://wi-consortium.org> Prior to this year three AWIC conferences have been held in Madrid Spain 2003 in Cancun Mexico 2004 and in Lodz Poland 2005 AWIC 2006 took place in Beer Sheva Israel during June 5-7 2006 organized locally by Ben Gurion University of the Negev The book presents state of the art developments in the field of computationally intelligent methods applied to various aspects and ways of Web exploration

**Advances in Verification of Time Petri Nets and Timed Automata** Wojciech Penczek, Agata Pólrola, 2006-06-26 This monograph presents a comprehensive introduction to timed automata TA and time Petri nets TPNs which belong to the most widely used models of real time systems Some of the existing methods of translating time Petri nets to timed automata are presented with a focus on the translations that correspond to the semantics of time Petri nets associating clocks with various components of the nets **Advances in Verification of Time Petri Nets and Timed Automata A Temporal Logic Approach** introduces timed and untimed temporal specification languages and gives model abstraction methods based on state class approaches for TPNs and on partition refinement for TA Moreover the monograph presents a recent progress in the development of two model checking methods based on either exploiting abstract state spaces or on application of SAT based symbolic techniques The book addresses research scientists as well as graduate and PhD students in computer science logics and engineering of real time systems

[Parallel Evolutionary Computations](#) Nadia Nedjah, Enrique Alba, Luiza de Macedo Mourelle, 2006-05-08 **Parallel Evolutionary Computation** focuses on the aspects related to the parallelization of evolutionary computations such as parallel genetic operators parallel fitness evaluation distributed genetic algorithms and parallel hardware implementations as well as on their impact on several applications The book is divided into four parts The first part deals with a clear software like and algorithmic vision on parallel evolutionary

optimizations The second part is about hardware implementations of genetic algorithms a valuable topic which is hard to find in the present literature The third part treats the problem of distributed evolutionary computation and presents three interesting applications wherein parallel EC new ideas are featured Finally the last part deals with the up to date field of parallel particle swarm optimization to illustrate the intrinsic similarities and potential extensions to techniques in this domain The book offers a wide spectrum of sample works developed in leading research throughout the world about parallel implementations of efficient techniques at the heart of computational intelligence It will be useful both for beginners and experienced researchers in the field of computational intelligence

*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 arti cial immune systems swarm intelligence reinforcement learning association rule mining Web intelligence paradigms etc have proved valuable when they are plied to Data Mining problems Computational tools or solutions based on intel gent 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 Int ligen ce 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

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