

DECOMPOSITION METHODOLOGY FOR KNOWLEDGE DISCOVERY AND DATA MINING THEORY AND APPLICATIONS

Oded Maimon • Lior Rokach



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Decomposition Methodology For Knowledge Discovery And Data Mining Theory And Applications

Oded Z Maimon, Lior Rokach



Decomposition Methodology For Knowledge Discovery And Data Mining Theory And Applications:

Decomposition Methodology For Knowledge Discovery And Data Mining: Theory And Applications Oded Z Maimon, Lior Rokach, 2005-05-30 Data Mining is the science and technology of exploring data in order to discover previously 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. This book provides an introduction to the field with an emphasis on advanced decomposition methods in general data mining tasks and for classification tasks in particular. The book presents a complete methodology for decomposing classification problems into smaller and more manageable sub problems that are solvable by using existing tools. The various elements are then joined together to solve the initial problem. The benefits of decomposition methodology in data mining include increased performance, classification accuracy, conceptual simplification of the problem, enhanced feasibility for huge databases, clearer and more comprehensible results, reduced runtime by solving smaller problems, and by using parallel distributed computation and the opportunity of using different techniques for individual sub problems. *Data Mining and Knowledge Discovery Handbook* Oded Maimon, Lior Rokach, 2010-09-10 Knowledge Discovery demonstrates intelligent computing at its best and is the most desirable and interesting end product of Information Technology. To be able to discover and to extract knowledge from data is a task that many researchers and practitioners are endeavoring to accomplish. There is a lot of hidden knowledge waiting to be discovered; this is the challenge created by today's abundance of data. *Data Mining and Knowledge Discovery Handbook* Second Edition organizes the most current concepts, theories, standards, methodologies, trends, challenges, and applications of data mining (DM) and knowledge discovery in databases (KDD) into a coherent and unified repository. This handbook 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* Second Edition is designed for research scientists, libraries, and advanced level students in computer science and engineering as a reference. This handbook is also suitable for professionals in industry for computing applications, information systems management, and strategic research management. *Data Mining and Knowledge Discovery Handbook* Oded Z. Maimon, Oded Maimon, Lior Rokach, 2005 Organizes major concepts, theories, methodologies, trends, challenges, and applications of data mining (DM) and knowledge discovery in databases (KDD). This book provides algorithmic descriptions of classic methods and is also suitable for professionals in fields such as computing applications, information systems management, and more. *The Dissimilarity Representation for Pattern Recognition* Elżbieta Piskalska, Robert P. W. Duin, 2005 This book provides a fundamentally new approach to pattern recognition in which objects are characterized by relations to other objects instead of by using features.

or models This dissimilarity representation bridges the gap between the traditionally opposing approaches of statistical and structural pattern recognition Physical phenomena objects and events in the world are related in various and often complex ways Such relations are usually modeled in the form of graphs or diagrams While this is useful for communication between experts such representation is difficult to combine and integrate by machine learning procedures However if the relations are captured by sets of dissimilarities general data analysis procedures may be applied for analysis With their detailed description of an unprecedented approach absent from traditional textbooks the authors have crafted an essential book for every researcher and systems designer studying or developing pattern recognition systems

Image Pattern Recognition: Synthesis And Analysis In Biometrics Svetlana N Yanushkevich, Patrick S P Wang, Sargur N Srihari, Marina Gavrilova, 2007-05-07 The field of biometrics utilizes computer models of the physical and behavioral characteristics of human beings with a view to reliable personal identification The human characteristics of interest include visual images speech and indeed anything which might help to uniquely identify the individual The other side of the biometrics coin is biometric synthesis rendering biometric phenomena from their corresponding computer models For example we could generate a synthetic face from its corresponding computer model Such a model could include muscular dynamics to model the full gamut of human emotions conveyed by facial expressions This book is a collection of carefully selected papers presenting the fundamental theory and practice of various aspects of biometric data processing in the context of pattern recognition The traditional task of biometric technologies human identification by analysis of biometric data is extended to include the new discipline of biometric synthesis

Fighting Terror in Cyberspace Mark Last, Abraham Kandel, 2005 As became apparent after the tragic events of September 11 2001 terrorist groups are increasingly using the Internet as a communication and propaganda tool where they can safely communicate with their affiliates coordinate action plans raise funds and introduce new supporters to their networks This is evident from the large number of web sites run by different terrorist organizations though the URLs and geographical locations of these web sites are frequently moved around the globe The wide use of the Internet by terrorists makes some people think that the risk of a major cyber attack against the communication infrastructure is low However this situation may change abruptly once the terrorists decide that the Net does not serve their purposes anymore and like any other invention of our civilization deserves destruction Fighting Terror in Cyberspace is a unique volume which provides for the first time a comprehensive overview of terrorist threats in cyberspace along with state of the art tools and technologies that can deal with these threats in the present and in the future The book covers several key topics in cyber warfare such as terrorist use of the Internet the Cyber Jihad data mining tools and techniques of terrorist detection on the web analysis and detection of terror financing and automated identification of terrorist web sites in multiple languages The contributors include leading researchers on international terrorism as well as distinguished experts in information security and cyber intelligence This book represents a valuable source of information for

academic researchers law enforcement and intelligence experts and industry consultants who are involved in detection analysis and prevention of terrorist activities on the Internet

Bridging The Gap Between Graph Edit Distance And Kernel Machines Michel Neuhaus, Horst Bunke, 2007-09-03 In graph based structural pattern recognition the idea is to transform patterns into graphs and perform the analysis and recognition of patterns in the graph domain commonly referred to as graph matching A large number of methods for graph matching have been proposed Graph edit distance for instance defines the dissimilarity of two graphs by the amount of distortion that is needed to transform one graph into the other and is considered one of the most flexible methods for error tolerant graph matching This book focuses on graph kernel functions that are highly tolerant towards structural errors The basic idea is to incorporate concepts from graph edit distance into kernel functions thus combining the flexibility of edit distance based graph matching with the power of kernel machines for pattern recognition The authors introduce a collection of novel graph kernels related to edit distance including diffusion kernels convolution kernels and random walk kernels From an experimental evaluation of a semi artificial line drawing data set and four real world data sets consisting of pictures microscopic images fingerprints and molecules the authors demonstrate that some of the kernel functions in conjunction with support vector machines significantly outperform traditional edit distance based nearest neighbor classifiers both in terms of classification accuracy and running time

Computational Intelligence in Software Quality Assurance Scott Dick, Abraham Kandel, 2005 Software systems surround us Software is a critical component in everything from the family car through electrical power systems to military equipment As software plays an ever increasing role in our lives and livelihoods the quality of that software becomes more and more critical However our ability to deliver high quality software has not kept up with those increasing demands The economic fallout is enormous the US economy alone is losing over US 50 billion per year due to software failures This book presents new research into using advanced artificial intelligence techniques to guide software quality improvements The techniques of chaos theory and data mining are brought to bear to provide new insights into the software development process Written for researchers and practitioners in software engineering and computational intelligence this book is a unique and important bridge between these two fields

Minimum Error Entropy Classification Joaquim P. Marques de Sá, Luís M.A. Silva, Jorge M.F. Santos, Luís A. Alexandre, 2012-07-25 This book explains the minimum error entropy MEE concept applied to data classification machines Theoretical results on the inner workings of the MEE concept in its application to solving a variety of classification problems are presented in the wider realm of risk functionals Researchers and practitioners also find in the book a detailed presentation of practical data classifiers using MEE These include multi layer perceptrons recurrent neural networks complexvalued neural networks modular neural networks and decision trees A clustering algorithm using a MEE like concept is also presented Examples tests evaluation experiments and comparison with similar machines using classic approaches complement the descriptions

Data Mining With Decision Trees: Theory And

Applications (2nd Edition) Oded Z Maimon, Lior Rokach, 2014-09-03 Decision trees have become one of the most powerful and popular approaches in knowledge discovery and data mining it is the science of exploring large and complex bodies of data in order to discover useful patterns Decision tree learning continues to evolve over time Existing methods are constantly being improved and new methods introduced This 2nd Edition is dedicated entirely to the field of decision trees in data mining to cover all aspects of this important technique as well as improved or new methods and techniques developed after the publication of our first edition In this new edition all chapters have been revised and new topics brought in New topics include Cost Sensitive Active Learning Learning with Uncertain and Imbalanced Data Using Decision Trees beyond Classification Tasks Privacy Preserving Decision Tree Learning Lessons Learned from Comparative Studies and Learning Decision Trees for Big Data A walk through guide to existing open source data mining software is also included in this edition This book invites readers to explore the many benefits in data mining that decision trees offer **Supervised and**

Unsupervised Ensemble Methods and their Applications Oleg Okun, 2008-04-18 This book results from the workshop on Supervised and Unsupervised Ensemble Methods and their Applications briefly SUEMA in June 2007 in Girona Spain This workshop was held alongside the 3rd Iberian Conference on Pattern Recognition and Image Analysis Safety and Reliability. Theory and Applications Marko Cepin, Radim Bris, 2017-06-14 Safety and Reliability Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portoro Slovenia June 18 22 2017 The book covers a wide range of topics including Accident and Incident modelling Economic Analysis in Risk Management Foundational Issues in Risk Assessment and Management Human Factors and Human Reliability Maintenance Modeling and Applications Mathematical Methods in Reliability and Safety Prognostics and System Health Management Resilience Engineering Risk Assessment Risk Management Simulation for Safety and Reliability Analysis Structural Reliability System Reliability and Uncertainty Analysis Selected special sessions include contributions on the Marie Skłodowska Curie innovative training network in structural safety risk approaches in insurance and finance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing organizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio technical economic systems advanced safety assessment methodologies extended Probabilistic Safety Assessment reliability availability maintainability and safety in railways theory big data risk analysis and management and model based reliability and safety engineering Safety and Reliability Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including Aeronautics and Aerospace Automotive Engineering Civil Engineering Electrical and Electronic Engineering Energy Production and Distribution Environmental Engineering Information Technology and Telecommunications Critical Infrastructures Insurance and Finance Manufacturing Marine Industry Mechanical Engineering Natural Hazards Nuclear Engineering Offshore Oil and Gas Security and Protection

Transportation and Policy Making **Adversarial Machine Learning** Aneesh Sreevallabh Chivukula,Xinghao Yang,Bo Liu,Wei Liu,Wanlei Zhou,2023-03-06 A critical challenge in deep learning is the vulnerability of deep learning networks to security attacks from intelligent cyber adversaries Even innocuous perturbations to the training data can be used to manipulate the behaviour of deep networks in unintended ways In this book we review the latest developments in adversarial attack technologies in computer vision natural language processing and cybersecurity with regard to multidimensional textual and image data sequence data and temporal data In turn we assess the robustness properties of deep learning networks to produce a taxonomy of adversarial examples that characterises the security of learning systems using game theoretical adversarial deep learning algorithms The state of the art in adversarial perturbation based privacy protection mechanisms is also reviewed We propose new adversary types for game theoretical objectives in non stationary computational learning environments Proper quantification of the hypothesis set in the decision problems of our research leads to various functional problems oracular problems sampling tasks and optimization problems We also address the defence mechanisms currently available for deep learning models deployed in real world environments The learning theories used in these defence mechanisms concern data representations feature manipulations misclassifications costs sensitivity landscapes distributional robustness and complexity classes of the adversarial deep learning algorithms and their applications In closing we propose future research directions in adversarial deep learning applications for resilient learning system design and review formalized learning assumptions concerning the attack surfaces and robustness characteristics of artificial intelligence applications so as to deconstruct the contemporary adversarial deep learning designs Given its scope the book will be of interest to Adversarial Machine Learning practitioners and Adversarial Artificial Intelligence researchers whose work involves the design and application of Adversarial Deep Learning Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods Olej, Vladimir,Obr? lov , Ilona,Krupka, Jiri,2010-11-30 Understanding the advancement of sustainable development is critical to managing human activities to avoid the overexploitation of resources and pollution of the environment beyond tolerable levels Sustainable development involves not only preservation and care of the environment but also recognition of the complex relations between economic social and living systems Environmental Modeling for Sustainable Regional Development System Approaches and Advanced Methods presents processing methods and their applications which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment This book serves as a reference guide for post graduate students in the field of management as well as a critical guide for managers government officials and information professionals *Wavelet Theory Approach To Pattern Recognition (2nd Edition)* Yuan Yan Tang,2009-07-06 The 2nd edition is an update of the book Wavelet Theory and its Application to Pattern Recognition published in 2000 Three new chapters which are research results conducted during 2001 2008 are added The book consists of three parts the first

presents a brief survey of the status of pattern recognition with wavelet theory the second contains the basic theory of wavelet analysis the third includes applications of wavelet theory to pattern recognition The new book provides a bibliography of 170 references including the current state of the art theory and applications of wavelet analysis to pattern recognition

Pattern Classification Using Ensemble Methods Lior Rokach,2010 1 Introduction to pattern classification 1 1 Pattern classification 1 2 Induction algorithms 1 3 Rule induction 1 4 Decision trees 1 5 Bayesian methods 1 6 Other induction methods 2 Introduction to ensemble learning 2 1 Back to the roots 2 2 The wisdom of crowds 2 3 The bagging algorithm 2 4 The boosting algorithm 2 5 The AdaBoost algorithm 2 6 No free lunch theorem and ensemble learning 2 7 Bias variance decomposition and ensemble learning 2 8 Occam s razor and ensemble learning 2 9 Classifier dependency 2 10 Ensemble methods for advanced classification tasks 3 Ensemble classification 3 1 Fusions methods 3 2 Selecting classification 3 3 Mixture of experts and meta learning 4 Ensemble diversity 4 1 Overview 4 2 Manipulating the inducer 4 3 Manipulating the training samples 4 4 Manipulating the target attribute representation 4 5 Partitioning the search space 4 6 Multi inducers 4 7 Measuring the diversity 5 Ensemble selection 5 1 Ensemble selection 5 2 Pre selection of the ensemble size 5 3 Selection of the ensemble size while training 5 4 Pruning post selection of the ensemble size 6 Error correcting output codes 6 1 Code matrix decomposition of multiclass problems 6 2 Type I training an ensemble given a code matrix 6 3 Type II adapting code matrices to the multiclass problems 7 Evaluating ensembles of classifiers 7 1 Generalization error 7 2 Computational complexity 7 3 Interpretability of the resulting ensemble 7 4 Scalability to large datasets 7 5 Robustness 7 6 Stability 7 7 Flexibility 7 8 Usability 7 9 Software availability 7 10 Which ensemble method should be used

Data Mining Robert Stahlbock,Sven F. Crone,Stefan Lessmann,2009-11-10 Over the course of the last twenty years research in data mining has seen a substantial increase in interest attracting original contributions from various disciplines including computer science statistics operations research and information systems Data mining supports a wide range of applications from medical decision making bioinformatics web usage mining and text and image recognition to prominent business applications in corporate planning direct marketing and credit scoring Research in information systems equally reflects this inter and multidisciplinary approach thereby advocating a series of papers at the intersection of data mining and information systems research This special issue of Annals of Information Systems contains original papers and substantial extensions of selected papers from the 2007 and 2008 International Conference on Data Mining DMIN 07 and DMIN 08 Las Vegas NV that have been rigorously peer reviewed The issue brings together topics on both information systems and data mining and aims to give the reader a current snapshot of the contemporary research and state of the art practice in data mining

Automated Database Applications Testing: Specification Representation For Automated Reasoning Rana Farid Mikhail,Donald J Berndt,Abraham Kandel,2010-01-08 This book introduces SpecDB an intelligent database created to represent and host software specifications in a machine readable format based on the principles of artificial intelligence and

unit testing database operations SpecDB is demonstrated via two automated intelligent tools The first automatically generates database constraints from a rule base in SpecDB The second is a reverse engineering tool that logs the actual execution of the program from the code

Formal Models, Languages and Applications K. G. Subramanian, K. Rangarajan, Madhavan Mukund, 2006 A collection of articles by leading experts in theoretical computer science this volume commemorates the 75th birthday of Professor Rani Siromoney one of the pioneers in the field in India The articles span the vast range of areas that Professor Siromoney has worked in or influenced including grammar systems picture languages and new models of computation

An Enduring Quest Ferd Leimkuhler, 2019-07-15 The process of industrialization that began over two hundred years ago is continuing to change the way people work and live and doing it very rapidly in places like China and India At the forefront of this movement is the profession of industrial engineering that develops and applies the technology that drives industrialization This book describes how industrial engineering evolved over the past two centuries developing methods and principles for the planning design and control of production and service systems The story focuses on the growth of the discipline at Purdue University where it helped shape the university itself and made substantial contributions to the industrialization of America and the world The story includes colorful and creative people like Frank and Lillian Gilbreth of Cheaper by the Dozen fame Lillian was the first lady of American engineering as well a founder of Purdue's Industrial Engineering

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