



# FEATURE EXTRACTION CONSTRUCTION and SELECTION

*A DATA MINING PERSPECTIVE*

HUAN LIU HIROSHI MOTODA

# Feature Extraction Construction And Selection A Data Mining Perspective

**Balázs Kégl, Guy Lapalme**



## **Feature Extraction Construction And Selection A Data Mining Perspective:**

*Feature Extraction, Construction and Selection* Huan Liu, Hiroshi Motoda, 1998-08-31 There is broad interest in feature extraction construction and selection among practitioners from statistics pattern recognition and data mining to machine learning Data preprocessing is an essential step in the knowledge discovery process for real world applications This book compiles contributions from many leading and active researchers in this growing field and paints a picture of the state of art techniques that can boost the capabilities of many existing data mining tools The objective of this collection is to increase the awareness of the data mining community about the research of feature extraction construction and selection which are currently conducted mainly in isolation This book is part of our endeavor to produce a contemporary overview of modern solutions to create synergy among these seemingly different branches and to pave the way for developing meta systems and novel approaches Even with today s advanced computer technologies discovering knowledge from data can still be fiendishly hard due to the characteristics of the computer generated data Feature extraction construction and selection are a set of techniques that transform and simplify data so as to make data mining tasks easier Feature construction and selection can be viewed as two sides of the representation problem

**Feature Extraction, Construction and Selection** Huan Liu, Hiroshi Motoda, 2012-12-06 There is broad interest in feature extraction construction and selection among practitioners from statistics pattern recognition and data mining to machine learning Data preprocessing is an essential step in the knowledge discovery process for real world applications This book compiles contributions from many leading and active researchers in this growing field and paints a picture of the state of art techniques that can boost the capabilities of many existing data mining tools The objective of this collection is to increase the awareness of the data mining community about the research of feature extraction construction and selection which are currently conducted mainly in isolation This book is part of our endeavor to produce a contemporary overview of modern solutions to create synergy among these seemingly different branches and to pave the way for developing meta systems and novel approaches Even with today s advanced computer technologies discovering knowledge from data can still be fiendishly hard due to the characteristics of the computer generated data Feature extraction construction and selection are a set of techniques that transform and simplify data so as to make data mining tasks easier Feature construction and selection can be viewed as two sides of the representation problem

**Feature Extraction** Isabelle Guyon, Steve Gunn, Masoud Nikravesh, Lofti A. Zadeh, 2008-11-16 This book is both a reference for engineers and scientists and a teaching resource featuring tutorial chapters and research papers on feature extraction Until now there has been insufficient consideration of feature selection algorithms no unified presentation of leading methods and no systematic comparisons

*Transactions on Rough Sets IX* Henryk Rybinski, 2008-12-18 This book is the ninth volume of the Transactions on Rough Sets series The 26 papers in it introduce new advances in the foundations and applications of artificial intelligence engineering image processing logic mathematics medicine music and science

Classification Methods for Remotely Sensed Data Taskin Kavzoglu, Brandt Tso, Paul M. Mather, 2024-09-04 The third edition of the bestselling *Classification Methods for Remotely Sensed Data* covers current state of the art machine learning algorithms and developments in the analysis of remotely sensed data This book is thoroughly updated to meet the needs of readers today and provides six new chapters on deep learning feature extraction and selection multisource image fusion hyperparameter optimization accuracy assessment with model explainability and object based image analysis which is relatively a new paradigm in image processing and classification It presents new AI based analysis tools and metrics together with ongoing debates on accuracy assessment strategies and XAI methods New in this edition Provides comprehensive background on the theory of deep learning and its application to remote sensing data Includes a chapter on hyperparameter optimization techniques to guarantee the highest performance in classification applications Outlines the latest strategies and accuracy measures in accuracy assessment and summarizes accuracy metrics and assessment strategies Discusses the methods used for explaining inherent structures and weighing the features of ML and AI algorithms that are critical for explaining the robustness of the models This book is intended for industry professionals researchers academics and graduate students who want a thorough and up to date guide to the many and varied techniques of image classification applied in the fields of geography geospatial and earth sciences electronic and computer science environmental engineering etc

*Advances in Artificial Intelligence - IBERAMIA 2002* Francisco J. Garijo, José C. Riquelme, Miguel Toro Bonilla, 2003-06-30 The 8th Ibero American Conference on Artificial Intelligence IBERAMIA 2002 took place in Spain for the second time in 14 years the first conference was organized in Barcelona in January 1988 The city of Seville hosted this 8th conference giving the participants the opportunity of enjoying the richness of its historical and cultural atmosphere Looking back over these 14 years key aspects of the conference such as its structure organization the quantity and quality of submissions the publication policy and the number of attendants have significantly changed Some data taken from IBERAMIA 88 and IBERAMIA 2002 may help to illustrate these changes IBERAMIA 88 was planned as an initiative of three Ibero American AI associations the Spanish Association for AI AEPIA the Mexican Association for AI SMIA and the Portuguese Association for AI APIA The conference was organized by the AEPIA staff including the AEPIA president Jos Cuenca the secretary Felisa Verdejo and other members of the AEPIA board The proceedings of IBERAMIA 88 contain 22 full papers grouped into six areas knowledge representation and reasoning learning AI tools expert systems language and vision Papers were written in the native languages of the participants Spanish Portuguese and Catalan Twenty extended abstracts describing ongoing projects were also included in the proceedings

**Knowledge Management in Organizations** Lorna Uden, Wei Lu, I-Hsien Ting, 2017-08-07 This book contains the refereed proceedings of the 12th International Conference on Knowledge Management in Organizations KMO 2017 held in Beijing China in August 2017 The theme of the conference was Emerging Technology and Knowledge Management in Organizations The 45 contributions accepted for KMO 2017 were selected from

112 submissions and are organized in topical sections on Knowledge Management Models and Behaviour Studies Knowledge Sharing Knowledge Transfer and Learning Knowledge and Service Innovation Knowledge and Organization Information Systems Research Value Chain and Supply Chain Knowledge Representation and Reasoning Data Mining and Intelligent Science Big Data Management Internet of Things and Network

**Artificial Neural Networks and Neural Information Processing - Icann/Iconip 2003** Okyay Kaynak, 2003-06-16 This book constitutes the refereed proceedings of the joint International Conference on Artificial Neural Networks and International Conference on Neural Information Processing ICANN ICONIP 2003 held in Istanbul Turkey in June 2003 The 138 revised full papers were carefully reviewed and selected from 346 submissions The papers are organized in topical sections on learning algorithms support vector machine and kernel methods statistical data analysis pattern recognition vision speech recognition robotics and control signal processing time series prediction intelligent systems neural network hardware cognitive science computational neuroscience context aware systems complex valued neural networks emotion recognition and applications in bioinformatics

*Intelligent Text Categorization and Clustering* Felipe M. G. França, Alberto Ferreira de Souza, 2008-09-09 Automatic Text Categorization and Clustering are becoming more and more important as the amount of text in electronic format grows and the access to it becomes more necessary and widespread Well known applications are spam filtering and web search but a large number of everyday uses exist intelligent web search data mining law enforcement etc Currently researchers are employing many intelligent techniques for text categorization and clustering ranging from support vector machines and neural networks to Bayesian inference and algebraic methods such as Latent Semantic Indexing This volume offers a wide spectrum of research work developed for intelligent text categorization and clustering In the following we give a brief introduction of the chapters that are included in this book

**Engineering of Additive Manufacturing Features for Data-Driven Solutions** Mutahar Safdar, Guy Lamouche, Padma Polash Paul, Gentry Wood, Yaoyao Fiona Zhao, 2023-06-01 This book is a comprehensive guide to the latest developments in data driven additive manufacturing AM From data mining and pre processing to signal processing computer vision and more the book covers all the essential techniques for preparing AM data Readers will explore the key physical and synthetic sources of AM data throughout the life cycle of the process and learn about feature engineering techniques pipelines and resulting features as well as their applications at each life cycle phase With a focus on featurization efforts from reviewed literature this book offers tabular summaries for major data sources and analyzes feature spaces at the design process and structure phases of AM to uncover trends and insights specific to feature engineering techniques Finally the book discusses current challenges and future directions including AI ML DL readiness of AM data Whether you are an expert or newcomer to the field this book provides a broader summary of the status and future of data driven AM technology

*Classification - the Ubiquitous Challenge* Claus Weihs, Wolfgang A. Gaul, 2006-03-30 The contributions in this volume represent the latest research results in the field of Classification Clustering and Data Analysis Besides the theoretical

analysis papers focus on various application fields as Archaeology Astronomy Bio Sciences Business Electronic Data and Web Finance and Insurance Library Science and Linguistics Marketing Music Science and Quality Assurance

**Domain-informed Machine Learning for Smart Manufacturing** Qiang Huang, 2025-08-04 This book introduces the state of the art understanding on domain informed machine learning DIML for advanced manufacturing Methods and case studies presented in this volume show how complicated engineering phenomena and mechanisms are integrated into machine learning problem formulation and methodology development Ultimately these methodologies contribute to quality control for smart personalized manufacturing The topics include domain informed feature representation dimension reduction for personalized manufacturing fabrication aware modeling of additive manufacturing processes small sample machine learning for 3D printing quality optimal compensation of 3D shape deviation in 3D printing engineering informed transfer learning for smart manufacturing and domain informed predictive modeling for nanomanufacturing quality Demonstrating systematically how the various aspects of domain informed machine learning methods are developed for advanced manufacturing such as additive manufacturing and nanomanufacturing the book is ideal for researchers professionals and students in manufacturing and related engineering fields [Pattern and Data Analysis in Healthcare Settings](#) Tiwari, Vivek, Tiwari, Basant, Thakur, Ramjeevan Singh, Gupta, Shailendra, 2016-07-22 Business and medical professionals rely on large data sets to identify trends or other knowledge that can be gleaned from the collection of it New technologies concentrate on data s management but do not facilitate users extraction of meaningful outcomes Pattern and Data Analysis in Healthcare Settings investigates the approaches to shift computing from analysis on demand to knowledge on demand By providing innovative tactics to apply data and pattern analysis these practices are optimized into pragmatic sources of knowledge for healthcare professionals This publication is an exhaustive source for policy makers developers business professionals healthcare providers and graduate students concerned with data retrieval and analysis **Advances in Artificial Intelligence** Balázs Kégl, Guy Lapalme, 2005-05-03 The 18th conference of the Canadian Society for the Computational Study of Intelligence CSCI continued the success of its predecessors This set of papers reflects the diversity of the Canadian AI community and its international partners AI 2005 attracted 135 high quality submissions 64 from Canada and 71 from around the world Of these eight were written in French All submitted papers were thoroughly reviewed by at least three members of the Program Committee A total of 30 contributions accepted as long papers and 19 as short papers are included in this volume We invited three distinguished researchers to give talks about their current research interests Eric Brill from Microsoft Research Craig Boutilier from the University of Toronto and Henry Krautz from the University of Washington The organization of such a successful conference benefited from the collaboration of many individuals Foremost we would like to express our appreciation to the Program Committee members and external referees who provided timely and significant reviews To manage the submission and reviewing process we used the Paperdyne system which was developed by

Dirk Peters We owe special thanks to Kellogg Booth and Tricia d Entremont for handling the local arrangements and registration We also thank Bruce Spencer and members of the CSCSI executive for all their efforts in making AI 2005 a successful conference

**Feature Engineering for Machine Learning and Data Analytics** Guozhu Dong, Huan Liu, 2018-03-14 Feature engineering plays a vital role in big data analytics Machine learning and data mining algorithms cannot work without data Little can be achieved if there are few features to represent the underlying data objects and the quality of results of those algorithms largely depends on the quality of the available features Feature Engineering for Machine Learning and Data Analytics provides a comprehensive introduction to feature engineering including feature generation feature extraction feature transformation feature selection and feature analysis and evaluation The book presents key concepts methods examples and applications as well as chapters on feature engineering for major data types such as texts images sequences time series graphs streaming data software engineering data Twitter data and social media data It also contains generic feature generation approaches as well as methods for generating tried and tested hand crafted domain specific features The first chapter defines the concepts of features and feature engineering offers an overview of the book and provides pointers to topics not covered in this book The next six chapters are devoted to feature engineering including feature generation for specific data types The subsequent four chapters cover generic approaches for feature engineering namely feature selection feature transformation based feature engineering deep learning based feature engineering and pattern based feature generation and engineering The last three chapters discuss feature engineering for social bot detection software management and Twitter based applications respectively This book can be used as a reference for data analysts big data scientists data preprocessing workers project managers project developers prediction modelers professors researchers graduate students and upper level undergraduate students It can also be used as the primary text for courses on feature engineering or as a supplement for courses on machine learning data mining and big data analytics

*Algorithmic Learning Theory* Osamu Watanabe, Takashi Yokomori, 2007-03-05 This book constitutes the refereed proceedings of the 10th International Conference on Algorithmic Learning Theory ALT 99 held in Tokyo Japan in December 1999 The 26 full papers presented were carefully reviewed and selected from a total of 51 submissions Also included are three invited papers The papers are organized in sections on Learning Dimension Inductive Inference Inductive Logic Programming PAC Learning Mathematical Tools for Learning Learning Recursive Functions Query Learning and On Line Learning

**Computational Methods of Feature Selection** Huan Liu, Hiroshi Motoda, 2007-10-29 Due to increasing demands for dimensionality reduction research on feature selection has deeply and widely expanded into many fields including computational statistics pattern recognition machine learning data mining and knowledge discovery Highlighting current research issues Computational Methods of Feature Selection introduces the

**Handbook of Healthcare Delivery Systems** Yuehwern Yih, 2016-04-19 With rapidly rising healthcare costs directly impacting the economy and quality of life resolving improvement

challenges in areas such as safety effectiveness patient centeredness timeliness efficiency and equity has become paramount Using a system engineering perspective Handbook of Healthcare Delivery Systems offers theoretical foundation

*Computational Intelligence* Anupam Shukla,B. K. Murthy,Nitasha Hasteer,Jean-Paul Van Belle,2023-02-15 The book constitutes the peer reviewed proceedings of the 2nd International Conference on Information Technology InCITe 2022 The Next Generation Technology Summit The theme of the conference is Computational Intelligence Automate your World The volume is a conglomeration of research papers covering interdisciplinary research and in depth applications of computational intelligence deep learning machine learning artificial intelligence data science enabling technologies for IoT blockchain and other futuristic computational technologies The volume covers various topics that span cutting edge collaborative technologies and areas of computation The content would serve as a rich knowledge repository on information communication technologies neural networks fuzzy systems natural language processing data mining warehousing big data analytics cloud computing security social networks and intelligence decision making and modeling information systems and IT architectures The book will be useful to researchers practitioners and policymakers working in information technology

**eMaintenance** Diego Galar,Uday Kumar,2017-06-15 eMaintenance Essential Electronic Tools for Efficiency enables the reader to improve efficiency of operations maintenance staff infrastructure managers and system integrators by accessing a real time computerized system from data to decision In recent years the exciting possibilities of eMaintenance have become increasingly recognized as a source of productivity improvement in industry The seamless linking of systems and equipment to control centres for real time reconfiguring is improving efficiency reliability and sustainability in a variety of settings The book provides an introduction to collecting and processing data from machinery explains the methods of overcoming the challenges of data collection and processing and presents tools for data driven condition monitoring and decision making This is a groundbreaking handbook for those interested in the possibilities of running a plant as a smart asset Provides an introduction to collecting and processing data from machinery Explains how to use sensor based tools to increase efficiency of diagnosis prognosis and decision making in maintenance Describes methods for overcoming the challenges of data collection and processing



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