

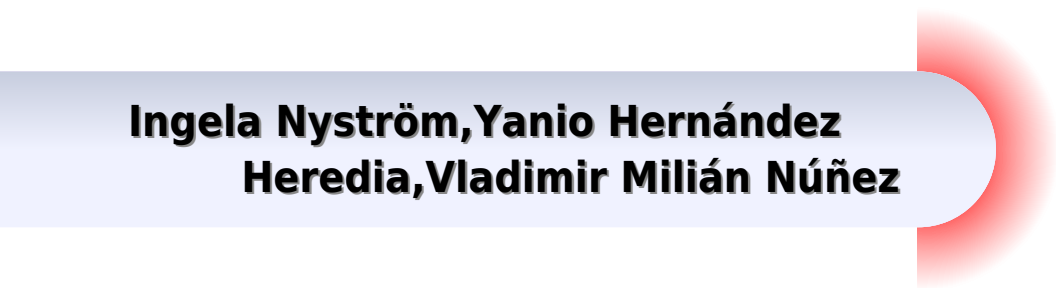
ADVANCES IN KNOWLEDGE DISCOVERY AND DATA MINING

Usama M. Fayyad, Gregory Piatetsky-Shapiro,
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EDITORS



Advances In Knowledge Discovery And Data Mining American Association For Artificial Intelligence

**Ingela Nyström, Yanio Hernández
Heredia, Vladimir Milián Núñez**



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Proceedings of the First International Conference on Advanced Data and Information Engineering (DaEng-2013) Tutut Herawan, Mustafa Mat Deris, Jemal Abawajy, 2013-12-14 The proceeding is a collection of research papers presented at the International Conference on Data Engineering 2013 DaEng 2013 a conference dedicated to address the challenges in the areas of database information retrieval data mining and knowledge management thereby presenting a consolidated view to the interested researchers in the aforesaid fields The goal of this conference was to bring together researchers and practitioners from academia and industry to focus on advanced on data engineering concepts and establishing new collaborations in these areas The topics of interest are as follows but are not limited to Database theory Data management Data mining and warehousing Data privacy security Information retrieval integration and visualization Information system Knowledge discovery in databases Mobile grid and cloud computing Knowledge based Knowledge management Web data services and intelligence

Progress in Artificial Intelligence José Maia Neves, Manuel Filipe Santos, José Manuel Machado, 2007-11-17 This book constitutes the refereed proceedings of the 13th Portuguese Conference on Artificial Intelligence EPIA 2007 held in Guimar es Portugal in December 2007 as eleven integrated workshops The 58 revised full papers presented were carefully reviewed and selected from a total of 210 submissions In accordance with the eleven constituting workshops the papers are organized in topical sections on a broad range of subjects

Advanced Data Mining and Applications Gao Cong, Wen-Chih Peng, Wei Emma Zhang, Chengliang Li, Aixin Sun, 2017-10-30 This book constitutes the refereed proceedings of the 13th International Conference on Advanced Data Mining and Applications ADMA 2017 held in Singapore in November 2017 The 20 full and 38 short papers presented in this volume were carefully reviewed and selected from 118 submissions The papers were organized in topical sections named database and distributed machine learning recommender system social network and social media machine learning classification and clustering methods behavior modeling and user profiling bioinformatics and medical data analysis spatio temporal data natural language processing and text mining data mining applications applications and demos

Improving Knowledge Discovery through the Integration of Data Mining Techniques Usman, Muhammad, 2015-08-03 Data warehousing is an important topic that is of interest to both the industry and the knowledge engineering research communities Both data mining and data warehousing technologies have similar objectives and can potentially benefit from each other s methods to facilitate knowledge discovery Improving Knowledge Discovery through the Integration of Data Mining Techniques provides insight concerning the integration of data mining and data warehousing for enhancing the knowledge discovery process Decision makers academicians researchers advanced level students technology developers and business intelligence professionals will find this book useful in furthering their research exposure to relevant topics in knowledge discovery

Artificial Intelligence and Industrial Applications Tawfik Masrour, Anass Cherrafi, Ibtissam El Hassani, 2020-09-01 This book

gathers the refereed proceedings of the Artificial Intelligence and Industrial Applications A2IA 2020 the first installment of an annual international conference organized by the ENSAM Meknes at Moulay Ismail University Morocco The 30 papers presented here were carefully reviewed and selected from 141 submissions by an international scientific committee They address various aspects of artificial intelligence such as smart manufacturing smart maintenance smart supply chain management supervised learning unsupervised learning reinforcement learning graph based and semi supervised learning neural networks deep learning planning and optimization and other AI applications The book is intended for AI experts offering them a valuable overview of the status quo and a global outlook for the future with many new and innovative ideas and recent important developments in AI applications both of a foundational and practical nature It will also appeal to non experts who are curious about this timely and important subject

New Developments in Robotics Research John X. Liu, 2005 Robotics began as a science fiction creation which has become quite real first in assembly line operations such as automobile manufacturing aeroplane construction etc They have now reached such areas as the Internet ever multiplying medical uses and sophisticated military applications Control of today's robots is often remote which requires even more advanced computer vision capabilities as well as sensors and interface techniques Learning has become crucial for modern robotic systems as well This new book brings together leading research in this exciting field

Proceedings of the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems - Volume 2 Hisashi Handa, Hisao Ishibuchi, Yew-Soon Ong, Kay-Chen Tan, 2014-11-04 This book contains a collection of the papers accepted in the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems IES 2014 which was held in Singapore from 10-12th November 2014 The papers contained in this book demonstrate notable intelligent systems with good analytical and/or empirical results

Conceptual Structures for Discovering Knowledge Simon Andrews, Simon Polovina, Richard Hill, Babak Akhgar, 2011-07-18 This book constitutes the proceedings of the 19th International Conference on Conceptual Structures ICCS 2011 held in Derby UK in July 2011 The 18 full papers and 4 short papers presented together with 12 workshop papers were carefully reviewed and selected for inclusion in the book The volume also contains 3 invited talks ICCS focuses on the useful representation and analysis of conceptual knowledge with research and business applications It advances the theory and practice in connecting the user's conceptual approach to problem solving with the formal structures that computer applications need to bring their productivity to bear Conceptual structures CS represent a family of approaches that builds on the successes of artificial intelligence business intelligence computational linguistics conceptual modelling information and Web technologies user modelling and knowledge management Two of the workshops contained in this volume cover CS and knowledge discovery in under traversed domains and in task specific information retrieval The third addresses CD in learning teaching and assessment

Applied Simulation and Optimization 2 Miguel Mujica Mota, Idalia Flores De La Mota, 2017-05-18 Building on the author's earlier Applied Simulation and Optimization this book presents novel methods for solving problems

in industry based on hybrid simulation optimization approaches that combine the advantages of both paradigms The book serves as a comprehensive guide to tackling scheduling routing problems resource allocations and other issues in industrial environments the service industry production processes or supply chains and aviation Logistics manufacturing and operational problems can either be modelled using optimization techniques or approaches based on simulation methodologies Optimization techniques have the advantage of performing efficiently when the problems are properly defined but they are often developed through rigid representations that do not include or accurately represent the stochasticity inherent in real systems Furthermore important information is lost during the abstraction process to fit each problem into the optimization technique On the other hand simulation approaches possess high description levels but the optimization is generally performed through sampling of all the possible configurations of the system The methods explored in this book are of use to researchers and practising engineers in fields ranging from supply chains to the aviation industry

Knowledge-Based Intelligent Information and Engineering Systems Bruno Apolloni, 2007-09-12 This book is part of a three volume set that constitutes the refereed proceedings of the 11th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2007 Coverage in this first volume includes artificial neural networks and connectionists systems fuzzy and neuro fuzzy systems evolutionary computation machine learning and classical AI agent systems and information engineering and applications in ubiquitous computing environments Advanced Machine Learning Technologies and Applications Aboul Ella Hassanien, Roheet Bhatnagar, Ashraf Darwish, 2020-05-25 This book presents the refereed proceedings of the 5th International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2020 held at Manipal University Jaipur India on February 13 15 2020 and organized in collaboration with the Scientific Research Group in Egypt SRGE The papers cover current research in machine learning big data Internet of Things biomedical engineering fuzzy logic and security as well as intelligence swarms and optimization **Innovations and Advances in Computing, Informatics, Systems Sciences, Networking and Engineering** Tarek Sobh, Khaled Elleithy, 2014-11-07 Innovations and Advances in Computing Informatics Systems Sciences Networking and Engineering This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Informatics and Systems Sciences and Engineering It includes selected papers from the conference proceedings of the Eighth and some selected papers of the Ninth International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2012 Includes chapters in the most advanced areas of Computing Informatics Systems Sciences and Engineering Accessible to a wide range of readership including professors researchers practitioners and students **Encyclopedia of Business Analytics and Optimization** Wang, John, 2014-02-28 As the age of Big Data emerges it becomes necessary to take the five dimensions of Big Data volume variety velocity volatility and veracity and focus these dimensions towards one critical emphasis value The Encyclopedia of Business Analytics and

Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management data visualization interdisciplinary communication and others Through its critical approach and practical application this book will be a must have reference for any professional leader analyst or manager interested in making the most of the knowledge resources at their disposal

Data Preprocessing in Data Mining

Salvador García, Julián Luengo, Francisco Herrera, 2014-08-30 Data Preprocessing for Data Mining addresses one of the most important issues within the well known Knowledge Discovery from Data process Data directly taken from the source will likely have inconsistencies errors or most importantly it is not ready to be considered for a data mining process Furthermore the increasing amount of data in recent science industry and business applications calls to the requirement of more complex tools to analyze it Thanks to data preprocessing it is possible to convert the impossible into possible adapting the data to fulfill the input demands of each data mining algorithm Data preprocessing includes the data reduction techniques which aim at reducing the complexity of the data detecting or removing irrelevant and noisy elements from the data This book is intended to review the tasks that fill the gap between the data acquisition from the source and the data mining process A comprehensive look from a practical point of view including basic concepts and surveying the techniques proposed in the specialized literature is given Each chapter is a stand alone guide to a particular data preprocessing topic from basic concepts and detailed descriptions of classical algorithms to an incursion of an exhaustive catalog of recent developments The in depth technical descriptions make this book suitable for technical professionals researchers senior undergraduate and graduate students in data science computer science and engineering

Pattern Mining with Evolutionary Algorithms

Sebastián Ventura, José María Luna, 2016-06-13 This book provides a comprehensive overview of the field of pattern mining with evolutionary algorithms To do so it covers formal definitions about patterns patterns mining type of patterns and the usefulness of patterns in the knowledge discovery process As it is described within the book the discovery process suffers from both high runtime and memory requirements especially when high dimensional datasets are analyzed To solve this issue many pruning strategies have been developed Nevertheless with the growing interest in the storage of information more and more datasets comprise such a dimensionality that the discovery of interesting patterns becomes a challenging process In this regard the use of evolutionary algorithms for mining pattern enables the computation capacity to be reduced providing sufficiently good solutions This book offers a survey on evolutionary computation with particular emphasis on genetic algorithms and genetic programming Also included is an analysis of the set of quality measures most widely used in the field of pattern mining with evolutionary algorithms This book serves as a review of the most important evolutionary algorithms for pattern mining It considers the analysis of different algorithms for mining different type of patterns and relationships between patterns such as frequent patterns infrequent patterns patterns defined in a continuous domain or even positive and negative patterns A completely new problem in the pattern mining field mining of exceptional relationships between patterns

is discussed In this problem the goal is to identify patterns which distribution is exceptionally different from the distribution in the complete set of data records Finally the book deals with the subgroup discovery task a method to identify a subgroup of interesting patterns that is related to a dependent variable or target attribute This subgroup of patterns satisfies two essential conditions interpretability and interestingness

Algorithmic Learning Theory Sanjay Jain,Hans Ulrich Simon,Etsuji Tomita,2005-10-11 This book constitutes the refereed proceedings of the 16th International Conference on Algorithmic Learning Theory ALT 2005 held in Singapore in October 2005 The 30 revised full papers presented together with 5 invited papers and an introduction by the editors were carefully reviewed and selected from 98 submissions The papers are organized in topical sections on kernel based learning bayesian and statistical models PAlearning query learning inductive inference language learning learning and logic learning from expert advice online learning defensive forecasting and teaching

Encyclopedia of Digital Agricultural Technologies Qin Zhang,2023-10-11 Digital agriculture is an emerging concept of modern farming that refers to managing farms using modern Engineering Information and Communication Technologies EICT aiming at increasing the overall efficiency of agricultural production improving the quantity and quality of products and optimizing the human labor required and natural resource consumption in operations This encyclopedia is designed to collect the summaries of knowledge on as many as subjects or aspects relevant to ECIT for digital agriculture present such knowledge in entries and arrange them alphabetically by articles titles Springer Major Reference Works platform offers Live Update capability Our reference work takes full advantage of this feature which allows for continuous improvement or revision of published content electronically The Editorial Board Dr Irwin R Donis Gonzalez University of California Davis Dept Biological and Agricultural Engineering Davis USA Section Postharvest Technologies Prof Paul Heinemann Pennsylvania State University Department Head of Agricultural and Biological Engineering PA USA Section Technologies for Crop Production Prof Manoj Karkee Washington State University Center for Precision and Automated Agricultural Systems Washington USA Section Robotics and Automation Technologies Prof Minzan Li China Agricultural University Beijing China Section Precision Agricultural Technologies Prof Dikai Liu University of Technology Sydney UTS Faculty of Engineering Information Technologies Broadway NSW Australia Section AI Information and Communication Technologies Prof Tomas Norton University of Leuven Dept of Biosystems Heverlee Leuven Belgium Section Technologies for Animal and Aquatic Production Dr Manuela Zude Sasse Leibniz Institute for Agricultural Engineering and Bioeconomy ATB Precision Horticulture Potsdam Germany Section Engineering and Mechanization Technologies

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications Ingela Nyström,Yanio Hernández Heredia,Vladimir Milián Núñez,2019-10-25 This book constitutes the refereed conference proceedings of the 24rd Iberoamerican Congress on Pattern Recognition CIARP 2019 held in Havana Cuba in October 2019 The 70 papers presented were carefully reviewed and selected from 128 submissions The papers are organized in topical sections named Data Mining Natural Language

Processing and Text Mining Image Analysis and Retrieval Machine Learning and Neural Networks Mathematical Theory of Pattern Recognition Pattern Recognition and Applications Signals Analysis and Processing Speech Recognition Video Analysis

Big Data for IoT, Cloud, and AI Anasooya Khanna, 2025-01-03 Big Data for IoT Cloud and AI offers a detailed exploration of big data focusing on its integration with IoT cloud computing and AI technologies This book is divided into seven chapters presented in a logical sequence across two main parts The first part covers three chapters on data science the role of clouds and IoT in big data computing We delve into technologies that explore smart cloud computing big data analytics and cognitive machine learning capabilities Topics include cloud architecture IoT cognitive systems and mobile cloud interaction frameworks The second part comprises four chapters focusing on machine learning principles data analytics and deep learning in big data applications We discuss supervised and unsupervised machine learning methods and deep learning with artificial neural networks Brain inspired computer architectures like IBM s SyNapse TrueNorth processors Google s tensor processing unit and China s Cambricon chips are also covered Additionally big data analytics in healthcare is explored This book aims to integrate big data theories with cloud design principles and supercomputing standards promoting big data computing on smart clouds and distributed datacenters We provide insights for leveraging computer analytical and application skills to advance career development business transformation and scientific discovery in the world of big data

Virtual Product Creation in Industry Rainer Stark, 2022-01-01 Today digital technologies represent an absolute must when it comes to creating new products and factories However day to day product development and manufacturing engineering operations have still only unlocked roughly fifty percent of the digital potential The question is why This book provides compelling answers and remedies to that question Its goal is to identify the main strengths and weaknesses of today s set up for digital engineering working solutions and to outline important trends and developments for the future The book concentrates on explaining the critical basics of the individual technologies before going into deeper analysis of the virtual solution interdependencies and guidelines on how to best align them for productive deployment in industrial and collaborative networks Moreover it addresses the changes needed in both technical and management skills in order to avoid fundamental breakdowns in running information technologies for virtual product creation in the future

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