

Honghua Tan (Ed.)

Knowledge Discovery and Data Mining

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Knowledge Discovery And Data Mining Advances In Intelligent And Soft Computing

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Knowledge Discovery And Data Mining Advances In Intelligent And Soft Computing:

Knowledge Discovery and Data Mining Honghua Tan, 2012-02-04 The volume includes a set of selected papers extended and revised from the 4th International conference on Knowledge Discovery and Data Mining March 1 2 2011 Macau China This Volume is to provide a forum for researchers educators engineers and government officials involved in the general areas of knowledge discovery and data mining and learning to disseminate their latest research results and exchange views on the future research directions of these fields 108 high quality papers are included in the volume Soft Computing for Knowledge Discovery and Data Mining Oded Maimon, Lior Rokach, 2007-10-25 Data mining is the science and technology of exploring large and complex bodies of data in order to discover useful patterns It is extremely important because it enables modeling and knowledge extraction from abundant data availability Soft Computing for Knowledge Discovery and Data Mining introduces soft computing methods extending the envelope of problems that data mining can solve efficiently It presents practical soft computing approaches in data mining This edited volume by highly regarded authors includes several contributors of the 2005 Data Mining and Knowledge Discovery Handbook This book was written to provide investigators in the fields of information systems engineering computer science statistics and management with a profound source for the role of soft computing in data mining Not only does this book feature illustrations of various applications including manufacturing medical banking insurance and others but also includes various real world case studies with detailed results Soft Computing for Knowledge Discovery and Data Mining is designed for practitioners and researchers in industry Practitioners and researchers may be particularly interested in the description of real world data mining projects performed with soft computing This book is also suitable as a secondary textbook or reference for advanced level students in information systems engineering computer science and statistics management Advances in Knowledge Discovery and Data Mining De-Nian Yang, Xing Xie, Vincent S. Tseng, Jian Pei, Jen-Wei Huang, Jerry Chun-Wei Lin, 2024-04-30 The 6 volume set LNAI 14645 14650 constitutes the proceedings of the 28th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2024 which took place in Taipei Taiwan during May 7 10 2024 The 177 papers presented in these proceedings were carefully reviewed and selected from 720 submissions They deal with new ideas original research results and practical development experiences from all KDD related areas including data mining data warehousing machine learning artificial intelligence databases statistics knowledge engineering big data technologies and foundations Artificial Intelligence and Soft Computing Leszek Rutkowski, Rafał Scherer, Marcin Korytkowski, Witold Pedrycz, Ryszard Tadeusiewicz, Jacek M. Zurada, 2025-02-25 The two volume set ICAISC 2024 15164 15165 and 15166 constitutes the refereed proceedings of the 23rd International Conference on Artificial Intelligence and Soft Computing ICAISC 2024 held in Zakopane Poland during June 16 20 2024 The 96 full papers included in this book were carefully reviewed and selected from 179 submissions They are organized in topical sections as follows Part I neural networks and their applications pattern

classification Part II evolutionary algorithms and their applications artificial intelligence in modeling and simulation computer vision image and speech analysis Part III various problems of artificial intelligence bioinformatics biometrics and medical applications Advanced Techniques in Knowledge Discovery and Data Mining Nikhil Pal, 2007-12-31 Clear and

concise explanations to understand the learning paradigms Chapters written by leading world experts **Advanced**

Intelligent Computational Technologies and Decision Support Systems Barna Iantovics, Roumen

Kountchev, 2013-08-04 This book offers a state of the art collection covering themes related to Advanced Intelligent Computational Technologies and Decision Support Systems which can be applied to fields like healthcare assisting the humans in solving problems The book brings forward a wealth of ideas algorithms and case studies in themes like intelligent predictive diagnosis intelligent analyzing of medical images new format for coding of single and sequences of medical images Medical Decision Support Systems diagnosis of Down s syndrome computational perspectives for electronic fetal monitoring efficient compression of CT Images adaptive interpolation and halftoning for medical images applications of artificial neural networks for real life problems solving present and perspectives for Electronic Healthcare Record Systems adaptive approaches for noise reduction in sequences of CT images etc **Recent Developments in Intelligent Computing,**

Communication and Devices Srikanta Patnaik, Florin Popentiu-Vladicescu, 2017-08-10 The book presents high quality papers presented at 2nd International Conference on Intelligent Computing Communication Devices ICCD 2016 organized by Interscience Institute of Management and Technology IIMT Bhubaneswar Odisha India during 13 and 14 August 2016 The book covers all dimensions of intelligent sciences in its three tracks namely intelligent computing intelligent communication and intelligent devices intelligent computing track covers areas such as intelligent and distributed computing intelligent grid and cloud computing internet of things soft computing and engineering applications data mining and knowledge discovery semantic and web technology hybrid systems agent computing bioinformatics and recommendation systems Intelligent communication covers communication and network technologies including mobile broadband and all optical networks that are the key to groundbreaking inventions of intelligent communication technologies This covers communication hardware software and networked intelligence mobile technologies machine to machine communication networks speech and natural language processing routing techniques and network analytics wireless ad hoc and sensor networks communications and information security signal image and video processing network management and traffic engineering And finally the third track intelligent device deals with any equipment instrument or machine that has its own computing capability As computing technology becomes more advanced and less expensive it can be built into an increasing number of devices of all kinds The intelligent device covers areas such as embedded systems RFID RF MEMS VLSI design and electronic devices analog and mixed signal IC design and testing MEMS and microsystems solar cells and photonics nanodevices single electron and spintronics devices space electronics and intelligent robotics *Intelligent Soft Computation and Evolving Data Mining:*

Integrating Advanced Technologies Wang, Leon Shyue-Liang, Hong, Tzung-Pei, 2010-03-31 This book provides a reference to researchers practitioners and students in both soft computing and data mining communities for generating creative ideas of securing and managing data mining Provided by publisher

Rough Set and Knowledge Technology JingTao Yao, Sheela Ramanna, Guoyin Wang, Zbigniew Suraj, 2011-09-21 This book constitutes the refereed proceedings of the 6th International Conference on Rough Sets and Knowledge Technology RSKT 2011 held in Banff Canada in September 2011 The 89 revised full papers presented together with 3 keynote lectures and 1 invited tutorial session were carefully reviewed and selected from 229 submissions The papers are organized in topical sections on attribute reduction and feature selection generalized rough set models machine learning with rough and hybrid techniques knowledge technology and intelligent systems and applications

Progress in Artificial Intelligence Fernando Moura Pires, 2003-11-24 This book constitutes the refereed proceedings of the 11th Portuguese Conference on Artificial Intelligence EPIA 2003 held in Beja Portugal in December 2003 The 29 revised full papers and 20 revised short papers presented were carefully reviewed and selected from a total of 119 submissions In accordance with the five constituting workshops the papers are organized in topical sections on artificial life and evolutionary algorithms constraint and logic programming systems extraction of knowledge from databases multi agent systems and AI for the Internet and natural language processing and text retrieval

Advanced Intelligent Computing Technology and Applications De-Shuang Huang, Haiming Chen, Bo Li, Qinhu Zhang, 2025-07-24 The 20 volume set LNCS 15842 15861 together with the 4 volume set LNAI 15862 15865 and the 4 volume set LNBI 15866 15869 constitutes the refereed proceedings of the 21st International Conference on Intelligent Computing ICIC 2025 held in Ningbo China during July 26 29 2025 The 1206 papers presented in these proceedings books were carefully reviewed and selected from 4032 submissions They deal with emerging and challenging topics in artificial intelligence machine learning pattern recognition bioinformatics and computational biology

Advances in Computational Intelligence Ignacio Rojas, Gonzalo Joya, Andreu Catala, 2015-06-05 This two volume set LNCS 9094 and LNCS 9095 constitutes the thoroughly refereed proceedings of the 13th International Work Conference on Artificial Neural Networks IWANN 2015 held in Palma de Mallorca Spain in June 2013 The 99 revised full papers presented together with 1 invited talk were carefully reviewed and selected from 195 submissions The papers are organized in topical sections on brain computer interfaces applications and tele services multi robot systems applications and theory MRSAT video and image processing transfer learning structures algorithms and methods in artificial intelligence interactive and cognitive environments mathematical and theoretical methods in fuzzy systems pattern recognition embedded intelligent systems expert systems advances in computational intelligence and applications of computational intelligence

Intelligent Technologies for Information Analysis Ning Zhong, Jiming Liu, 2013-03-14 Intelligent Information Technology iiT encompasses the theories and applications of artificial intelligence statistical pattern recognition learning theory data warehousing data mining and knowledge discovery Grid computing and

autonomous agents and multi agent systems in the context of today s as well as future IT such as Electronic Commerce EC Business Intelligence BI Social Intelligence SI Web Intelligence WI Knowledge Grid KG and Knowledge Community KC among others The multi author monograph presents the current state of the research and development in intelligent technologies for information analysis in par ticular advances in agents data mining and learning theory from both the oretical and application aspects It investigates the future of information technology IT from a new intelligent IT iiT perspective and highlights major iiT related topics by structuring an introductory chapter and 22 sur vey research chapters into 5 parts 1 emerging data mining technology 2 data mining for Web intelligence 3 emerging agent technology 4 emerging soft computing technology and 5 statistical learning theory Each chapter includes the original work of the author s as well as a comprehensive survey related to the chapter s topic This book will become a valuable source of reference for R D profession als active in advanced intelligent information technologies Students as well as IT professionals and ambitious practitioners concerned with advanced in telligent information technologies will appreciate the book as a useful text enhanced by numerous illustrations and examples

Meta-Learning in Computational Intelligence Norbert Jankowski,Włodzisław Duch,Krzysztof Grąbczewski,2011-06-10 Computational Intelligence CI community has developed hundreds of algorithms for intelligent data analysis but still many hard problems in computer vision signal processing or text and multimedia understanding problems that require deep learning techniques are open Modern data mining packages contain numerous modules for data acquisition pre processing feature selection and construction instance selection classification association and approximation methods optimization techniques pattern discovery clusterization visualization and post processing A large data mining package allows for billions of ways in which these modules can be combined No human expert can claim to explore and understand all possibilities in the knowledge discovery process This is where algorithms that learn how to learnl come to rescue Operating in the space of all available data transformations and optimization techniques these algorithms use meta knowledge about learning processes automatically extracted from experience of solving diverse problems Inferences about transformations useful in different contexts help to construct learning algorithms that can uncover various aspects of knowledge hidden in the data Meta learning shifts the focus of the whole CI field from individual learning algorithms to the higher level of learning how to learn This book defines and reveals new theoretical and practical trends in meta learning inspiring the readers to further research in this exciting field

Enhancing the Power of the Internet Masoud Nikravesh,Ben Azvine,Ronald R. Yager,Lofti A. Zadeh,2012-09-07 During the last decade significant progress has been made in Internet technology by using computational intelligence methods This book presents reports from the front of soft computing in the Internet industry and covers important topics in the field such as search engines fuzzy query decision analysis and support systems as well as e business and e commerce The articles are selected results from a recent workshop Fuzzy Logic and the Internet FLINT 2001 related to the Internet Fuzzy Logic hosted by the Berkeley Initiative in Soft

Computing BISC program The main purpose of the Workshop was to draw the attention of the fuzzy logic community as well as the Internet community to the fundamental importance of specific Internet related problems including search engines user modeling and personal information provision e commerce e business e health semantic web net web assistant and agents knowledge representation for e learning content based information retrieval information organization intrusion detection and network management The book presents a collection of challenging problems and new directions toward the next generation of search engines and the Internet *Intelligent Technologies for Information Analysis* Ning Zhong, Jiming Liu, 2004-08-12 Today we live in an information age information has become a commodity and every second thousands of new records are created This explosion of massive data sets created by businesses science and governments necessitates intelligent and more powerful computing paradigms so that users can benefit from this data This information needs to be summarized and synthesized to support effective problem solving and decision making The papers in this book assume an interdisciplinary approach based on three major methodologies first hybridization i e combining methods in order to harness their strengths and avoid their shortcomings second multiphase processing i e the step wise preparation evaluation and refinement of data and third multi agent and distributed processing i e using intelligent agents as well as Web or grid architectures The final vision of the authors is an intelligent information technology encompassing theories and applications from for example artificial intelligence data mining grid computing and statistical learning This monograph presents the current state of research and development in both theoretical and application aspects of intelligent information analysis It is a source of reference and includes numerous examples for researchers graduate students and advanced professionals working in areas such as electronic commerce business intelligence and knowledge grids Encyclopedia of Microcomputers Allen Kent, James G. Williams, 2001-06-20 Achieving Synergy Between Computer Power and Human Resources to Temporal and Modal Logic Programming Languages *Monitoring, Security, and Rescue Techniques in Multiagent Systems* Barbara Dunin-Keplicz, Andrzej Jankowski, Marcin Szczuka, 2006-08-13 In today s society the issue of security has become a crucial one The use of knowledge based technology in security applications emerges with important applications in monitoring control crisis and rescue management This volume contains extended and improved versions of selected contributions presented at the International Workshop Monitoring Security and Rescue Techniques in Multiagent Systems MSRAS 2004 held in Plock Poland June 7 9 2004 bringing together the world s leading researchers in the field **Advanced Intelligent Computing** De-Shuang Huang, Yong Gan, Vitoantonio Bevilacqua, Juan Carlos Figueroa, 2012-02-10 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Intelligent Computing ICIC 2011 held in Zhengzhou China in August 2011 The 94 revised full papers presented were carefully reviewed and selected from 832 submissions The papers are organized in topical sections on neural networks machine learning theory and methods fuzzy theory and models fuzzy systems and soft computing evolutionary learning swarm intelligence and optimization intelligent

computing in computer vision intelligent computing in image processing biometrics with applications to individual security forensic sciences intelligent image document retrievals natural language processing and computational linguistics intelligent data fusion and information security intelligent computing in pattern recognition intelligent agent and web applications intelligent computing in scheduling intelligent control and automation **The Internet Encyclopedia, Volume 1 (A - F)**
,2004-11-11 The Internet Encyclopedia in a 3 volume reference work on the internet as a business tool IT platform and communications and commerce medium

The book delves into Knowledge Discovery And Data Mining Advances In Intelligent And Soft Computing. Knowledge Discovery And Data Mining Advances In Intelligent And Soft Computing is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Knowledge Discovery And Data Mining Advances In Intelligent And Soft Computing, encompassing both the fundamentals and more intricate discussions.

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 6. In chapter 5, this book will draw a conclusion about Knowledge Discovery And Data Mining Advances In Intelligent And Soft Computing. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Knowledge Discovery And Data Mining Advances In Intelligent And Soft Computing.

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