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10 CHALLENGING PROBLEMS IN DATA MINING RESEARCH

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In October 2005, we took an initiative to identify 10 challenging problems in data mining research, by consulting some of the most active researchers in data mining and machine learning for their opinions on what are considered important and worthy topics for future research in data mining. We hope their insights will inspire new research efforts, and give young researchers (including PhD students) a high-level guideline as to where the hot problems are located in data mining.

Due to the limited amount of time, we were only able to send out our survey requests to the organizers of the IEEE ICDM and ACM KDD conferences, and we received an overwhelming response. We are very grateful for the contributions provided by these researchers despite their busy schedules. This short article serves to summarize the 10 most challenging problems of the 14 responses we have received from this survey. The order of the listing does not reflect their level of importance.

Keywords: Data mining; machine learning; knowledge discovery.

1. Developing a Unifying Theory of Data Mining

Several respondents feel that the current state of the art of data mining research is too "ad-hoc." Many techniques are designed for individual problems, such as classification or clustering, but there is no unifying theory. However, a theoretical framework that unifies different data mining tasks including clustering, classification, association rules, etc., as well as different data mining approaches (such as statistics, machine learning, database systems, etc.), would help the field and provide a basis for future research.

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Biocomputing 2013 - Proceedings Of The Pacific Symposium Russ B Altman,A Keith Dunker,Lawrence Hunter,Tiffany A Murray,Teri E Klein,2012-11-16 The Pacific Symposium on Biocomputing PSB 2013 is an international multidisciplinary conference for the presentation and discussion of current research in the theory and application of computational methods in problems of biological significance Presentations are rigorously peer reviewed and are published in an archival proceedings volume PSB 2013 will be held on January 3 7 2013 in Kohala Coast Hawaii Tutorials and workshops will be offered prior to the start of the conference PSB 2013 will bring together top researchers from the US the Asian Pacific nations and around the world to exchange research results and address open issues in all aspects of computational biology It is a forum for the presentation of work in databases algorithms interfaces visualization modeling and other computational methods as applied to biological problems with emphasis on applications in data rich areas of molecular biology The PSB has been designed to be responsive to the need for critical mass in sub disciplines within biocomputing For that reason it is the only meeting whose sessions are defined dynamically each year in response to specific proposals PSB sessions are organized by leaders of research in biocomputing s hot topics In this way the meeting provides an early forum for serious examination of emerging methods and approaches in this rapidly changing field **Advanced Computing Applications, Databases and Networks** S.A Begum,2011-05-13 ADVANCED COMPUTING APPLICATIONS DATABASES AND NETWORKS focuses on new developments and advances in three major areas of Computer Science The first part presents some significant contributions and surveys major research areas of Advanced Computing Applications viz Natural Language Processing Medical Imaging Soft Computing Methodologies and a wide variety of its application domains The second part explains different approaches towards development of Unified Theoretical Model for Database Mining Dimension Reduction of higher dimensional data and the applicability of Soft Computing Methodologies in Data Mining and Clustering The third part provides the approaches taken to address the challenging problems in the areas of Wired and Wireless Networks The chapters in this volume are representative of recent research efforts and advances in the area of Advanced Computing Applications Databases and Networks covering both theoretical and application issues **Intelligent Control and Innovative Computing** Sio Iong Ao,Oscar Castillo,He Huang,2012-01-07 A large international conference on Advances in Intelligent Control and Innovative Computing was held in Hong Kong March March 16 18 2011 under the auspices of the International MultiConference of Engineers and Computer Scientists IMECS 2010 The IMECS is organized by the International Association of Engineers IAENG Intelligent Control and Computer Engineering contains 25 revised and extended research articles written by prominent researchers participating in the conference Topics covered include artificial intelligence control engineering decision supporting systems automated planning automation systems systems identification modelling and simulation communication systems signal processing and industrial applications Intelligent Control and Innovative Computing offers the

state of the art of tremendous advances in intelligent control and computer engineering and also serves as an excellent reference text for researchers and graduate students working on intelligent control and computer engineering *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 *Information Modelling and Knowledge Bases XXIX* V. Sornlertlamvanich,P. Chawakitchareon,A. Hansuebsai,2018-02-09 Information modelling and knowledge bases have become ever more essential in recent years because of the need to handle and process the vast amounts of data which now form part of everyday life The machine to machine communication of the Internet of Things IoT in particular can generate unexpectedly large amounts of raw data This book presents the proceedings of the 27th International Conference on Information Modelling and Knowledge Bases EJC2017 held in Krabi Thailand in June 2017 The EJC conferences originally began in 1982 as a co operative initiative between Japan and Finland but have since become a world wide research forum bringing together researchers and practitioners in information modelling and knowledge bases for the exchange of scientific results and achievements Of the 42 papers submitted 29 were selected for publication here and these cover a wide range of information modelling topics including the theory of concepts semantic computing data mining context based information retrieval ontological technology image databases temporal and spatial databases document data management software engineering cross cultural computing environmental analysis social networks and WWW information The book will be of interest to all those whose work involves dealing with large amounts of data **Hybrid Artificial Intelligent Systems** Emilio Corchado,Marek Kurzynski,Michal Wozniak,2011-05-25 The two LNAI volumes 6678 and 6679 constitute the proceedings of the 6th International Conference on Hybrid Artificial Intelligent Systems HAIS 2011 held in Wroclaw Poland in May 2011 The 114 papers published in these proceedings were carefully reviewed and selected from 241 submissions They are organized in topical sessions on hybrid intelligence systems on logistics and intelligent optimization

metaheuristics for combinatorial optimization and modelling complex systems hybrid systems for context based information fusion methods of classifier fusion intelligent systems for data mining and applications systems man and cybernetics hybrid artificial intelligence systems in management of production systems hybrid artificial intelligent systems for medical applications and hybrid intelligent approaches in cooperative multi robot systems **Data Mining Techniques in Grid Computing Environments** Werner Dubitzky,2008-12-22 Based around eleven international real life case studies and including contributions from leading experts in the field this groundbreaking book explores the need for the grid enabling of data mining applications and provides a comprehensive study of the technology techniques and management skills necessary to create them This book provides a simultaneous design blueprint user guide and research agenda for current and future developments and will appeal to a broad audience from developers and users of data mining and grid technology to advanced undergraduate and postgraduate students interested in this field **Encyclopedia of data warehousing and mining** John Wang,2008 **Data Mining Methods and Applications** Kenneth D. Lawrence,Stephan Kudyba,Ronald K. Klimberg,2008 Addressing a variety of organizational issues Data Mining Methods and Applications presents a compilation of recent research works on data mining and forecasting techniques including multivariate evolutionary and neural net methods This book focuses in particular on data mining techniques used for conducting marketing research Written by a wide range of contributors from academia and industry this text provides detailed descriptions of applications in numerous areas such as finance engineering healthcare economics science and management Real world case studies that are supported by theoretical chapters offer guidance on how to actually perform data mining methods **Computer and Information Technology** Prasad Yarlagadda,Seung Bok Choi,Yun Hae Kim,2014-02-06 Selected peer reviewed papers from the International Forum on Computer and Information Technology IFCIT 2013 December 24 25 2013 Shenzhen China **3rd IEEE International Conference on Data Mining** Xindong Wu,2003 ICDM 03 brings together researchers and practitioners who describe their original research results and practical development experiences in Data Mining technology The papers explore subjects in many related data mining areas such as machine learning automated scientific discovery statistics pattern recognition knowledge acquisition soft computing databases data warehousing data visualization and knowledge based systems Data mining is an emerging and highly interdisciplinary field The ICDM 03 proceedings cover a broad and diverse range of topics related to data mining theory systems and applications **Data Mining and Knowledge Discovery** Belur V. Dasarathy,1999 The incorporation of new technology into aviation has had an enormous impact Advances in microelectronics stealth technology engine design and electronic sensors and displays have converted simple aircraft into formidable flying machines In this book recognized experts in aviation helmet mounted displays summarize 25 years of knowledge and experience in HMD visual acoustic and biodynamic performance and user issues such as sizing fitting and emergency egress *Proceedings of the ... Forum on Research and Technology Advances in Digital Libraries* ,1998

Proceedings of the Seventh SIAM International Conference on Data Mining Chid Apte,Bing Liu,Srinivasan Parthasarathy,2007 The Seventh SIAM International Conference on Data Mining SDM 2007 continues a series of conferences whose focus is the theory and application of data mining to complex datasets in science engineering biomedicine and the social sciences These datasets challenge our abilities to analyze them because they are large and often noisy Sophisticated highperformance and principled analysis techniques and algorithms based on sound statistical foundations are required Visualization is often critically important tuning for performance is a significant challenge and the appropriate levels of abstraction to allow end users to exploit sophisticated techniques and understand clearly both the constraints and interpretation of results are still something of an open question   **IEEE International Forum on Research and Technology Advances in Digital Libraries** ,1998   Abstracts of Public Administration, Development, and Environment ,2009   **SIGKDD Explorations** ,2000   *Proceedings of the ... International Conference on Information and Knowledge Management* ,2004   *Third International Symposium on Multispectral Image Processing* Hanqing Lu,Tianxu Zhang,2003   *Proceedings of the ... ACM CIKM* ,2002

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