ROUGH SETS AND DATA MINING

ANALYSIS OF IMPRECISE DATA

edited by

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and
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Rough Sets And Data Mining:

Rough Sets and Data Mining T.Y. Lin,N. Cercone,2012-12-06 Rough Sets and Data Mining Analysis of Imprecise Data is an edited collection of research chapters on the most recent developments in rough set theory and data mining The chapters in this work cover a range of topics that focus on discovering dependencies among data and reasoning about vague uncertain and imprecise information The authors of these chapters have been careful to include fundamental research with explanations as well as coverage of rough set tools that can be used for mining data bases The contributing authors consist of some of the leading scholars in the fields of rough sets data mining machine learning and other areas of artificial intelligence Among the list of contributors are Z Pawlak J Grzymala Busse K Slowinski and others Rough Sets and Data Mining Analysis of Imprecise Data will be a useful reference work for rough set researchers data base designers and developers and for researchers new to the areas of data mining and rough sets   **Rough Sets and Data Mining** T.Y. Lin,N. Cercone,1996-11-30   **Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing** Guoyin Wang,2003-05-08 This book constitutes the refereed proceedings of the 9th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2003 held in Chongqing China in May 2003 The 39 revised full papers and 75 revised short papers presented together with 2 invited keynote papers and 11 invited plenary papers were carefully reviewed and selected from a total of 245 submissions The papers are organized in topical sections on rough sets foundations and methods fuzzy sets and systems granular computing neural networks and evolutionary computing data mining machine learning and pattern recognition logics and reasoning multi agent systems and Web intelligence and intelligent systems   **Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing** Dominik Slezak,Marcin Szczuka,Ivo Duentsch,Yiyu Yao,2005-09-19 This volume contains the papers selected for presentation at the 10th Int national Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2005 organized at the University of Regina August 31st September 3rd 2005 This conference followed in the footsteps of inter tional events devoted to the subject of rough sets held so far in Canada China Japan Poland Sweden and the USA RSFDGrC achievedthe status of biennial international conference starting from 2003 in Chongqing China The theory of rough sets proposed by Zdzis law Pawlak in 1982 is a model of approximate reasoning The main idea is based on indiscernibility relations that describe indistinguishability of objects Concepts are represented by proximations In applications rough set methodology focuses on approximate representation of knowledge derivable from data It leads to signi cant results in many areas such as nance industry multimedia and medicine The RSFDGrC conferences put an emphasis on connections between rough sets and fuzzy sets granularcomputing and knowledge discoveryand data m ing both at the level of theoretical foundations and real life applications In the case of this event additional e ort was made to establish a linkage towards a broader range of applications We achieved it by including in the conference program the workshops on bioinformatics security engineering and embedded systems as well as tutorials and sessions related to other

application areas **Data Mining, Rough Sets and Granular Computing** Tsau Young Lin,Yiyu Y. Yao,Lotfi A. Zadeh,2002-04-10 During the past few years data mining has grown rapidly in visibility and importance within information processing and decision analysis This is par ticularly true in the realm of e commerce where data mining is moving from a nice to have to a must have status In a different though related context a new computing methodology called granular computing is emerging as a powerful tool for the conception analysis and design of information intelligent systems In essence data mining deals with summarization of information which is resident in large data sets while granular computing plays a key role in the summarization process by draw ing together points objects which are related through similarity proximity or functionality In this perspective granular computing has a position of centrality in data mining Another methodology which has high relevance to data mining and plays a central role in this volume is that of rough set theory Basically rough set theory may be viewed as a branch of granular computing However its applications to data mining have predated that of granular computing Transactions on Rough Sets I James F. Peters,Andrzej Skowron,2004-07-05 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues starting from logical and mathematical foundations through all aspects of rough set theory and its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence This first volume of the Transactions on Rough Sets opens with an introductory article by Zdzislaw Pawlak the originator of rough sets Nine papers deal with rough set theory and eight are devoted to applications in various domains Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing Yiyu Yao,Qinghua Hu,Hong Yu,Jerzy W. Grzymala-Busse,2015-11-21 This book constitutes the refereed conference proceedings of the 15th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2015 held in Tianjin China in November 2015 as one of the co located conference of the 2015 Joint Rough Set Symposium JRS 2015 The 44 papers were carefully reviewed and selected from 97 submissions The papers in this volume cover topics such as rough sets the experts speak generalized rough sets rough sets and graphs rough and fuzzy hybridization granular computing data mining and machine learning three way decisions IJCRS 2015 data challenge **Transactions on Rough Sets V** ,2006-11-18 This book is dedicated to the monumental life work and creative genius of Zdzislaw Pawlak the originator of rough sets who passed away in April 2006 It opens with a commemorative article that gives a brief coverage of Pawlak s works in rough set theory molecular computing philosophy painting and poetry Fifteen papers explore the theory of rough sets in various domains as well as new applications of rough sets *Data Mining, Rough Sets and Granular Computing* Tsau Young Lin,Yiyu Y. Yao,Lotfi A. Zadeh,2014-01-15 **Rough Sets and Current Trends in Computing** Chien-Chung Chan,Jerzy W. Grzymala-Busse,Wojciech P. Ziarko,2008-10-07 The articles in this volume were selected for presentation at the Sixth Inter tional Conference on Rough Sets and Current Trends in Computing RSCTC 2008 which took place on October

23 25 in Akron Ohio USA The conference is a premier event for researchersand industrial professionals interested in the theory and applications of rough sets and related methodo gies Since its introduction over 25 years ago by Zdzislaw Pawlak the theory of rough sets has grown internationally and matured leading to novel applications and theoretical works in areas such as data mining and knowledge discovery machine learning neural nets granular and soft computing Web intelligence pattern recognition and control The proceedings of the conferences in this ries as well as in Rough Sets and Knowledge Technology RSKT and the Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC series report a variety of innovative applications of rough set theory and of its extensions Since its inception the mathematical rough set theory was closely connected to application elds of computer science and to other areas such as medicine which provided additional motivation for its further development and tested its real life value Consequently rough set conferences emphasize the teractionsandinterconnectionswith relatedresearchareas providingforumsfor exchanging ideas and mutual learning The latter aspect is particularly imp tant since the development of rough set related applications usually requires a combination of often diverse expertise in rough sets and an application eld **Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing** Guoyin Wang,Qing Liu,Yiyu Yao,2014-01-15 *Rough Sets, Fuzzy Sets, Data Mining and Granular Computing* Aijun An,Jerzy Stefanowski,Sheela Ramanna,Cory Butz,Witold Pedrycz,2007-08-22 This book constitutes the refereed proceedings of the 11th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2007 held in Toronto Canada in May 2007 in conjunction with the Second International Conference on Rough Sets and Knowledge Technology RSKT 2007 both as part of the Joint Rough Set Symposium JRS 2007 *Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing* Davide Ciucci,Masahiro Inuiguchi,Yiyu Yao,Dominik Slezak,Guoyin Wang,2013-10-07 This book constitutes the thoroughly refereed conference proceedings of the 14th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2013 held in Halifax Canada in October 2013 as one of the co located conference of the 2013 Joint Rough Set Symposium JRS 2013 The 69 papers including 44 regular and 25 short papers included in the JRS proceedings LNCS 8170 and LNCS 8171 were carefully reviewed and selected from 106 submissions The papers in this volume cover topics such as inconsistency incompleteness non determinism fuzzy and rough hybridization granular computing and covering based rough sets soft clustering image and medical data analysis **Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing** Dominik Slezak,JingTao Yao,James F. Peters,Wojciech Ziarko,Xiaohua Hu,2005-09-14 This volume contains the papers selected for presentation at the 10th Int national Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2005 organized at the University of Regina August 31st September 3rd 2005 This conference followed in the footsteps of inter tional events devoted to the subject of rough sets held so far in Canada China Japan Poland Sweden and the USA RSFDGrC achievedthe status of biennial international conference starting from 2003 in Chongqing China The theory of rough sets proposed by Zdzis law Pawlak in 1982 is a model of

approximate reasoning The main idea is based on indiscernibility relations that describe indistinguishability of objects Concepts are represented by proximations In applications rough set methodology focuses on approximate representation of knowledge derivable from data It leads to signi cant results in many areas such as nance industry multimedia and medicine The RSFDGrC conferences put an emphasis on connections between rough sets and fuzzy sets granularcomputing and knowledge discoveryand data m ing both at the level of theoretical foundations and real life applications In the case of this event additional e ort was made to establish a linkage towards a broader range of applications We achieved it by including in the conference program the workshops on bioinformatics security engineering and embedded systems as well as tutorials and sessions related to other application areas *Rough sets, fuzzy sets, data mining, and granular computing* Dominik Ślęzak, **Rough Sets, Fuzzy Sets, Data Mining and Granular Computing** Sergei O. Kuznetsov,Dominik Ślęzak,Daryl H. Hepting,Boris G. Mirkin,2011-06-14 This book constitutes the refereed proceedings of the 13th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2011 held in Moscow Russia in June 2011 The 49 revised full papers presented together with 5 invited and 2 tutorial papers were carefully reviewed and selected from a total of 83 submissions The papers are organized in topical sections on rough sets and approximations coverings and granules fuzzy set models fuzzy set applications compound values feature seletion and reduction clusters and concepts rules and trees image processing and interactions and visualization **Rough Sets and Knowledge Technology** JingTao Yao,2007-04-27 This book constitutes the refereed proceedings of the Second International Conference on Rough Sets and Knowledge Technology RSKT 2007 held in Toronto Canada in May 2007 in conjunction with the 11th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2007 both as part of the Joint Rough Set Symposium JRS 2007 Rough Set Theory: A True Landmark in Data Analysis Ajith Abraham,Rafael Falcón,Rafael Bello,2009-02-26 Part 1 of this book deals with theoretical contributions of rough set theory and parts 2 and 3 focus on several real world data mining applications The book thoroughly explores recent results in rough set research *Thriving Rough Sets* Guoyin Wang,Andrzej Skowron,Yiyu Yao,Dominik Ślęzak,Lech Polkowski,2017-04-28 This special book is dedicated to the memory of Professor Zdzis aw Pawlak the father of rough set theory in order to commemorate both the 10th anniversary of his passing and 35 years of rough set theory The book consists of 20 chapters distributed into four sections which focus in turn on a historical review of Professor Zdzis aw Pawlak and rough set theory a review of the theory of rough sets the state of the art of rough set theory and major developments in rough set based data mining approaches Apart from Professor Pawlak s contributions to rough set theory other areas he was interested in are also included Moreover recent theoretical studies and advances in applications are also presented The book will offer a useful guide for researchers in Knowledge Engineering and Data Mining by suggesting new approaches to solving the problems they encounter **Rough Set Theory and Granular Computing** Masahiro Inuiguchi,Shusaku Tsumoto,Shoji Hirano,2012-12-06 After 20 years of pursuing rough set theory and

its applications a look on its present state and further prospects is badly needed The monograph Rough Set Theory and Granular Computing edited by Masahiro Inuiguchi Shoji Hirano and Shusaku Tsumoto meets this demand It presents the newest developments in this area and gives fair picture of the state of the art in this domain Firstly in the keynote papers by Zdzislaw Pawlak Andrzej Skowron and Sankar K Pal the relationship of rough sets with other important methods of data analysis Bayes theorem neuro computing and pattern recognitio is thoroughly examined Next several interesting generalizations of the the ory and new directions of research are presented Furthermore application of rough sets in data mining in particular rule induction methods based on rough set theory is presented and discussed Further important issue dis cussed in the monograph is rough set based data analysis including study of decisions making in conflict situations Last but not least some recent engi neering applications of rough set theory are given They include a proposal of rough set processor architecture organization for fast implementation of ba sic rough set operations and discussion of results concerning advanced image processing for unmanned aerial vehicle Thus the monograph beside presenting wide spectrum of ongoing research in this area also points out new emerging areas of study and applications which makes it a valuable source of information to all interested in this do main

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