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JingTao Yao
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Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing

10th International Conference, RSFDGrC 2005
Regina, Canada, August/September 2005
Proceedings, Part II

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Rough Sets Fuzzy Sets Data Mining And Granular Computing

Hiroshi Sakai,Mihir Chakraborty,Aboul-Ella Hassanien,Dominik Slezak,William Zhu

Rough Sets Fuzzy Sets Data Mining And Granular Computing:

   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 Guoyin Wang,Qing Liu,Yiyu Yao,2014-01-15   **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   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   **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, 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 Aijun An,2007-04-27 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** 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,2005 This volume contains the papers selected for presentation at the 10th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2005 organized at the University of Regina August 31st September 3rd 2005   Rough Sets, Fuzzy Sets, Data Mining and Granular Computing Sergei O. Kuznetsov,2011   **Rough Sets, Fuzzy Sets, Data Mining and Granular Computing** Hiroshi Sakai,Mihir Chakraborty,Aboul-Ella Hassanien,Dominik Slezak,William Zhu,2009-11-30 Welcome to the 12th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2009 held at the Indian Institute of Technology IIT Delhi India during December 15 18 2009 RSFDGrC is a series of conferences spanning over the last 15 years It investigates the me ing points among the four major areas outlined in its title This year it was co organized with the Third International Conference on Pattern Recognition and Machine Intelligence PReMI 2009 which provided additional means for multi facetedinteractionofboth scientists andpractitioners Itwasalsothe core component of this year s Rough Set Year in India project However it remained a fully international event aimed at building bridges between countries The rst sectin contains the invited papers and a short report on the abo mentioned project Let us note that all the RSFDGrC 2009 plenary speakers Ivo D ntsch Zbigniew Suraj Zhongzhi Shi Sergei Kuznetsov Qiang Shen and Yukio Ohsawa contributed with the full length articles in the proceedings The remaining six sections contain 56 regular papers that were selected out of 130 submissions each peer reviewed by three PC members We thank the authors for their high quality papers submitted to this volume and regret that many deserving papers could not be accepted because of our urge to maintain strict standards It is worth mentioning that there was quite a good number of papers on the foundations of rough sets and fuzzy sets many of them authored byIndianresearchers ThefuzzysettheoryhasbeenpopularinIndiaforalonger time Now we can see the rising interest in the rough set theory

     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 **Rough Sets, Fuzzy Sets, Data Mining and Granular Computing** Hiroshi Sakai,Mihir Chakraborty,Aboul-Ella Hassanien,Dominik Slezak,William Zhu,2009-12-15 This book constitutes the refereed proceedings of the 12th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2009 held in Delhi India in December 2009 in conjunction with the Third International Conference on Pattern Recognition and Machine Intelligence PReMI 2009 RSFDGrC 2009 is the core component of a broader Rough Set Year in India initiative RSIndia09 The 56 revised full papers presented together with 6 invited papers and a report on the Rough Set Year in India 2009 project were carefully reviewed and selected from a total of 130 submissions The papers are organized in topical sections on foundations of rough sets and beyond rought set algorithms and applications fuzzy set foundations and applications data mining and knowledge discovery clustering and current trends in computing and information retrieval and text mining *New Directions in Rough Sets, Data Mining, and Granular-Soft Computing* Ning Zhong,Andrzej Skowron,Setsuo Ohsuga,1999-10-20 This book constitutes the refereed proceedings of the 7th International Workshop on Rough Sets Fuzzy Sets Data Mining and Granular Soft Computing RSFDGrC 99 held in Yamaguchi Japan in November 1999 The 45 revised regular papers and 15 revised short papers presented together with four invited contributions were carefully reviewed and selected from 89 submissions The book is divided into sections on rough computing foundations and applications rough set theory and applications fuzzy set theory and applications nonclassical logic and approximate reasoning information granulation and granular computing data mining and knowledge discovery machine learning and intelligent agents and systems **Granular Computing: At the Junction of Rough Sets and Fuzzy Sets** Rafael Bello,Rafael Falcón,2008-02-20 This volume is a compilation of the best papers presented at the First International Symposium on Fuzzy and Rough Sets ISFUROS 2006 held in Santa Clara Cuba They contain valuable contributions both in the theoretical field and in several application domains such as intelligent control data analysis decision making and machine learning just to name a few Together they capture the huge potential of the aforementioned methodologies 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 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 – Granular Computing in Knowledge Discovery and Data Mining** J. Stepaniuk,2009-01-29 This book covers methods based on a combination of granular computing rough sets and knowledge discovery in data mining KDD The discussion of KDD foundations based on the rough set approach and granular computing feature illustrative applications *Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing* ,2005

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