Granular Computing and Rough Set Theory

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Dedicated to the memory of Prof. Z. Pawlak

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Rough Set Theory And Granular Computing

Masahiro Inuiguchi,Shusaku Tsumoto,Shoji Hirano

Rough Set Theory And Granular Computing:

Rough Set Theory and Granular Computing Masahiro Inuiguchi,Shoji Hirano,Shusaku Tsumoto,2003-04-22 This monograph presents novel approaches and new results in fundamentals and applications related to rough sets and granular computing It includes the application of rough sets to real world problems such as data mining decision support and sensor fusion The relationship of rough sets to other important methods of data analysis Bayes theorem neurocomputing and pattern recognition is thoroughly examined Another issue is the rough set based data analysis including the study of decision making in conflict situations Recent engineering applications of rough set theory are given including a processor architecture organization for fast implementation of basic rough set operations and results concerning advanced image processing for unmanned aerial vehicles New emerging areas of study and applications are presented as well as a wide spectrum of on going research which makes the book valuable to all interested in the field of rough set theory and granular computing

Topics in Rough Set Theory Seiki Akama,Yasuo Kudo,Tetsuya Murai,2019-09-10 This book discusses current topics in rough set theory Since Pawlak s rough set theory was first proposed to offer a basis for imprecise and uncertain data and reasoning from data many workers have investigated its foundations and applications Examining various topical issues including object oriented rough set models recommendation systems decision tables and granular computing the book is a valuable resource for students and researchers in the field **Rough Set Theory and Granular Computing** Masahiro Inuiguchi,Shusaku Tsumoto,Shoji Hirano,2012-11-26 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

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 *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,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 **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, 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* 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 – 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* 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 selection and reduction clusters and concepts rules and trees image processing and interactions and visualization *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 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 Rough Sets and Intelligent Systems Paradigms Marzena Kryszkiewicz,2007-06-18 This book constitutes the refereed proceedings of the International Conference on Rough Sets and Emerging Intelligent Systems Paradigms RSEISP 2007 held in Warsaw Poland in June 2007 dedicated to the memory of Professor Zdzislaw Pawlak The 73 revised full papers papers presented together with 2 keynote lectures and 11 invited papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on foundations of rough sets foundations and applications of fuzzy sets granular computing algorithmic aspects of rough sets rough set applications rough fuzzy approach information systems and rough sets data and text mining machine learning hybrid methods and applications multiagent systems applications in bioinformatics and medicine multimedia applications as well as web reasoning and human problem solving Incomplete Information System and Rough Set Theory Xibei Yang,Jingyu Yang,2012-12-15 Incomplete Information System and Rough Set Theory Models and Attribute Reductions covers theoretical study of generalizations of rough set model in various incomplete information systems It discusses not only the regular attributes but also the criteria in the incomplete information systems Based on different types of rough set models the book presents the practical approaches to compute several reducts in terms of these models The book is intended for researchers and postgraduate students in machine learning data mining and knowledge discovery especially for those who are working in rough set theory and granular computing Dr Xibei Yang is a lecturer at the School of Computer Science and Engineering Jiangsu University of Science and Technology China Jingyu Yang is a professor at the School of Computer Science Nanjing University of Science and Technology China **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 *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 Shusaku Tsumoto,Roman Slowiński,Jan Komorowski,Jerzy W. Grzymala-Busse,2004-05-21 In recent years rough set theory has attracted the attention of many researchers and practitioners all over the world who have contributed essentially to its development and applications Weareobservingagrowingresearchinterestinthefoundationsofroughsets including the various logical mathematical and philosophical aspects of rough sets Some relationships have already been established between rough sets and other approaches and also with a wide range of hybrid systems As a result rough sets are linked with decision system modeling and analysis of complex systems fuzzy sets neural networks evolutionary computing data mining and knowledge discovery pattern recognition machine learning and approximate reasoning In particular rough sets are used in probabilistic reasoning granular computing including information granule calculi based on rough mereology intelligent control intelligent agent modeling identi cation of autonomous s tems and process speci cation Methods based on rough set theory alone or in combination with other proacheshavebeendiscoveredwith awide rangeofapplicationsinsuchareasas acoustics bioinformatics business and nance chemistry computer engineering e g data compression digital image processing digital signal processing p allel and distributed computer systems sensor fusion fractal engineering de sion analysis and systems economics electrical engineering e g control signal analysis power systems environmental studies informatics medicine mole lar biology musicology neurology robotics social science software engineering spatial visualization Web engineering and Web mining

Rough Sets and Current Trends in Computing James J. Alpigini,James F. Peters,Andrzeij Skowron,Ning Zhong,2003-08-03 This volume contains the papers selected for presentation at the Third Inter tional Conference on Rough Sets and Current Trends in Computing RSCTC 2002 held at Penn State Great Valley Malvern Pennsylvania U S A 14 16 October 2002 Rough set theoryand its applications constitute a branch of soft computing that has exhibited a signi cant growth rate during recent years RSCTC 2002 provided a forum for exchanging ideas among manyresearchers in the rough set communityand in various areas of soft computing and served as a stimulus for mutual understanding and cooperation In recent years there have been a number of advances in rough set theoryand applications Hence we have witnessed a growing number of international workshops on rough sets and their applications In addition it should be observed that one of the beauties of rough sets and the rough set philosophyis that it tends to complement and reinforce research in manytraditional research areas and applications This is the main reason that manyinternational conferences are now including rough sets into the list of topics

The Enigmatic Realm of **Rough Set Theory And Granular Computing**: Unleashing the Language is Inner Magic

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