

STUDIES IN FUZZINESS
AND SOFT COMPUTING

in Fuzziness and

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Shoji Hirano · Shusaku Tsumoto
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Rough Set Theory and Granular Computing



Springer

Rough Set Theory And Granular Computing

**Seiki Akama, Yasuo Kudo, Tetsuya
Murai**



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 ongoing 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 a 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 recognition is thoroughly examined. Next, several interesting generalizations of the theory 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, an important issue discussed in the monograph is rough set based data analysis including study of decision making in conflict situations. Last but not least, some recent engineering applications of rough set theory are given. They include a proposal of rough set processor architecture organization for fast implementation of basic rough set operations and discussion of results concerning advanced image processing for unmanned aerial vehicle. Thus the monograph, beside presenting a 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 domain.

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 particularly 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 drawing 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.

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.

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 International 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 researchers and industrial professionals interested in the theory and applications of rough sets and related methodologies. 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 series 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 Set Theory: A True Landmark in Data Analysis Ajith Abraham,Rafael Falc3n,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, 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 - 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 Śl3zak,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 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 and Knowledge Technology

Peng Wen, Yuefeng Li, Lech Polkowski, Yiyu Y. Yao, Shusaku Tsumoto, 2009-06-24 This book constitutes the refereed proceedings of the Fourth International Conference on Rough Sets and Knowledge Technology RSKT 2009 held in Gold Coast Australia in July 2009 The 85 revised full papers presented together with 3 keynote papers and 2 special sessions were carefully reviewed and selected from 229 submissions The papers are organized in topical sections on rough sets and computing rough sets and data reduction data mining and knowledge discovery granular computing and cognitive computing fuzzy sets and computing knowledge technology and intelligent systems computational intelligence and applications image processing and understanding and formal concept analysis

Epistemic Situation Calculus Based on Granular Computing Seiki Akama, Yotaro Nakayama, Tetsuya Murai, 2023-06-16 This book approaches to the subject of common sense reasoning in AI using epistemic situation calculus which integrates the ideas of situation calculus and epistemic logic Artificial intelligence AI is the research area of science and engineering for intelligent machines especially intelligent computer programs It is very important to deal with common sense reasoning in knowledge based systems If we employ a logic based framework classical logic is not suited for the purpose of describing common sense reasoning It is well known that there are several difficulties with logic based approaches e g the so called Frame Problem We try to formalize common sense reasoning in the context of granular computing based on rough set theory The book is intended for those like experts and students who wish to get involved in the field as a monograph or a textbook for the subject We assume that the reader has mastered the material ordinarily covered in AI and mathematical logic

Granular, Fuzzy, and Soft Computing Tsau-Young Lin, Churn-Jung Liao, Janusz Kacprzyk, 2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science ECSS 2009 presented a comprehensive overview of granular computing GrC broadly divided into several categories Granular computing from rough set theory Granular Computing in Database Theory Granular Computing in Social Networks Granular Computing and Fuzzy Set Theory Grid Cloud Computing as well as general issues in granular computing In 2011 the formal theory of GrC was established providing an adequate infrastructure to support revolutionary new approaches to computer data science including the challenges presented by so called big data For this volume of ECSS Second Edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data mining qualitative fuzzy sets and information flow analysis for security applications Granulations can be seen as a natural and ancient methodology deeply rooted in the human mind Many daily things are routinely granulated into sub things The topography of earth is granulated into hills plateaus etc space and time are granulated into infinitesimal granules and a circle is granulated into polygons of infinitesimal sides Such granules led to the invention of calculus topology and non standard analysis Formalization of general granulation was difficult but as shown in this volume great progress has been made in combining discrete and continuous mathematics under one roof for a broad range of applications in data science

Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing Dominik

Slezak, Marcin Szczuka, Ivo Dumentsch, Yiyu Yao, 2005-09-19 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 This conference followed in the footsteps of international events devoted to the subject of rough sets held so far in Canada China Japan Poland Sweden and the USA RSFDGrC achieved the status of biennial international conference starting from 2003 in Chongqing China The theory of rough sets proposed by Zdzisław 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 approximations In applications rough set methodology focuses on approximate representation of knowledge derivable from data It leads to significant results in many areas such as finance industry multimedia and medicine The RSFDGrC conferences put an emphasis on connections between rough sets and fuzzy sets granular computing and knowledge discovery and data mining both at the level of theoretical foundations and real life applications In the case of this event additional effort 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 *Developments in Natural Intelligence Research and Knowledge Engineering: Advancing Applications* Wang, Yingxu, 2012-06-30 This book covers the intricate worlds of thought comprehension intelligence and knowledge through the scientific field of Cognitive Science covering topics that have been pivotal at major conferences covering Cognitive Science Provided by publisher **Granular Computing** Witold Pedrycz, 2001-06-06 Granular Computing is concerned with constructing and processing carried out at the level of information granules Using information granules we comprehend the world and interact with it no matter which intelligent endeavor this may involve The landscape of granular computing is immensely rich and involves set theory interval mathematics fuzzy sets rough sets random sets linked together in a highly synergetic environment This volume is a first comprehensive treatment of this emerging paradigm and embraces its fundamentals underlying methodological framework and a sound algorithmic environment The panoply of applications covered includes system identification telecommunications linguistics and music processing Written by experts in the field this volume will appeal to all developing intelligent systems either working at the methodological level or interested in detailed system realization **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 Foundations of Intelligent Systems Ning Zhong,Zbigniew W Ras,Shusaku Tsumoto,Einoshin Suzuki,2003-10-10 This volume contains the papers selected for presentation at the 14th International Symposium on Methodologies for Intelligent Systems ISMIS 2003 held in Maebashi City Japan 28 31 October 2003 The symposium was organized by the Maebashi Institute of Technology in co operation with the Japanese Society for Artificial Intelligence It was sponsored by the Maebashi Institute of Technology Maebashi Convention Bureau Maebashi City Government Gunma Prefecture Government US AFOSR AOARD the Web Intelligence Consortium Japan Gunma Information Service Industry Association and Ryomo Systems Co Ltd ISMIS is a conference series that was started in 1986 in Knoxville Tennessee Since then it has been held in Charlotte North Carolina Knoxville Tennessee Turin Italy Trondheim Norway Warsaw Poland Zakopane Poland and Lyon France The program committee selected the following major areas for ISMIS 2003 active media human computer interaction autonomic and evolutionary computation intelligent agent technology intelligent information retrieval intelligent information systems knowledge representation and integration knowledge discovery and data mining logic for artificial intelligence soft computing and Web intelligence

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