

# **ROUGH SETS AND DATA MINING**

***ANALYSIS OF IMPRECISE DATA***

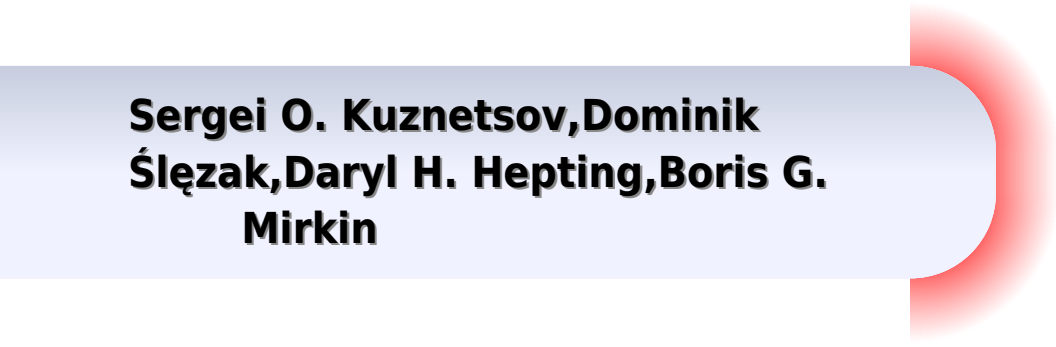
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# Rough Sets And Data Mining

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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, 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 Duentzsch, 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 Zdzislaw 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 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 applications.

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 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

*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 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 applications 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 interactions and interconnections with related research areas providing forums for exchanging ideas and mutual learning The latter aspect is particularly important since the development of rough set related applications usually requires a combination of often diverse expertise in rough sets and an application field

**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 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 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 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 *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 selection and reduction clusters and concepts rules and trees image processing and interactions and visualization

**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, Fuzzy Sets, Data Mining and Granular Computing* Hiroshi Sakai, Mihir Chakraborty, Aboul-Ella Hassanien, Dominik Ślęzak, 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 meeting 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 multifaceted interaction of both scientists and practitioners It was also the 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 first section contains the invited papers and a short report on the above mentioned project Let us note that all the RSFDGrC 2009 plenary speakers Ivo Düntsch 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 by Indian researchers

The fuzzy set theory has been popular in India for a longer time Now we can see the rising interest in the rough set theory

**Rough Sets and Knowledge Technology** Guoyin Wang, Tianrui Li, Jerzy W. Grzymala-Busse, Duoqian Miao, Yiyu Y. Yao, 2008-04-25 This book constitutes the refereed proceedings of the Third International Conference on Rough Sets and Knowledge Technology RSKT 2008 held in Chengdu China in May 2008 The 91 revised full papers presented together with 3 keynote papers and 6 tutorial papers were carefully reviewed and selected from 184 submissions They all focus on five major research fields computing theory and paradigms knowledge technology intelligent information processing intelligent control and applications The papers are organized in topical sections on rough and soft computing rough mereology with applications dominance based rough set approach fuzzy rough hybridization granular computing logical and mathematical foundations formal concept analysis data mining machine learning intelligent information processing bioinformatics and cognitive informatics web intelligence pattern recognition and real life applications of knowledge technology

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