

STUDIES IN FUZZINESS  
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# in Fuzziness and Soft Computing

Lesz Polkowski  
Shusaku Tsumoto · Tsau Y. Lin  
Editors

## **Rough Set Methods and Applications**

New Developments  
in Knowledge Discovery  
in Information Systems



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# Rough Set Methods And Applications

**Georg Peters, Pawan Lingras, Dominik  
Ślęzak, Yiyu Yao**



## **Rough Set Methods And Applications:**

**Rough Set Methods and Applications** Lech Polkowski, Shusaku Tsumoto, Tsau Y. Lin, 2012-10-07 Rough set approach to reasoning under uncertainty is based on inducing knowledge representation from data under constraints expressed by discernibility or more generally similarity of objects Knowledge derived by this approach consists of reducts decision or association rules dependencies templates or classifiers This monograph presents the state of the art of this area The reader will find here a deep theoretical discussion of relevant notions and ideas as well as rich inventory of algorithmic and heuristic tools for knowledge discovery by rough set methods An extensive bibliography will help the reader to get an acquaintance with this rapidly growing area of research

**Rough Sets: Selected Methods and Applications in Management and Engineering** Georg Peters, Pawan Lingras, Dominik Ślęzak, Yiyu Yao, 2012-02-21 Rough Set Theory introduced by Pawlak in the early 1980s has become an important part of soft computing within the last 25 years However much of the focus has been on the theoretical understanding of Rough Sets with a survey of Rough Sets and their applications within business and industry much desired Rough Sets Selected Methods and Applications in Management and Engineering provides context to Rough Set theory with each chapter exploring a real world application of Rough Sets Rough Sets is relevant to managers striving to improve their businesses industry researchers looking to improve the efficiency of their solutions and university researchers wanting to apply Rough Sets to real world problems

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**Rough Sets and Knowledge Technology** Guoyin Wang, 2006-07-06 This book constitutes the refereed proceedings of the First International Conference on Rough Sets and Knowledge Technology RSKT 2006 held in Chongqing China in July 2006 The volume presents 43 revised full papers and 58 revised short papers together with 15 commemorative and invited papers Topics include rough computing evolutionary computing fuzzy sets granular computing neural computing machine learning and KDD logics and reasoning multiagent systems and Web intelligence and more

*Understanding and Using Rough Set Based Feature Selection: Concepts, Techniques and Applications* Muhammad Summair Raza, Usman Qamar, 2019-08-23 This book provides a comprehensive introduction to rough set based feature selection Rough set theory first proposed by Zdzisław Pawlak in 1982 continues to evolve Concerned with the classification and analysis of imprecise or uncertain information and knowledge it

has become a prominent tool for data analysis and enables the reader to systematically study all topics in rough set theory RST including preliminaries advanced concepts and feature selection using RST The book is supplemented with an RST based API library that can be used to implement several RST concepts and RST based feature selection algorithms The book provides an essential reference guide for students researchers and developers working in the areas of feature selection knowledge discovery and reasoning with uncertainty especially those who are working in RST and granular computing The primary audience of this book is the research community using rough set theory RST to perform feature selection FS on large scale datasets in various domains However any community interested in feature selection such as medical banking and finance can also benefit from the book This second edition also covers the dominance based rough set approach and fuzzy rough sets The dominance based rough set approach DRSA is an extension of the conventional rough set approach and supports the preference order using the dominance principle In turn fuzzy rough sets are fuzzy generalizations of rough sets An API library for the DRSA is also provided with the second edition of the book [Rough Sets](#) Lech Polkowski,2013-06-05 A comprehensive introduction to mathematical structures essential for Rough Set Theory The book enables the reader to systematically study all topics of rough set theory After a detailed introduction in Part 1 along with an extensive bibliography of current research papers Part 2 presents a self contained study that brings together all the relevant information from respective areas of mathematics and logics Part 3 provides an overall picture of theoretical developments in rough set theory covering logical algebraic and topological methods Topics covered include algebraic theory of approximation spaces logical and set theoretical approaches to indiscernibility and functional dependence topological spaces of rough sets The final part gives a unique view on mutual relations between fuzzy and rough set theories rough fuzzy and fuzzy rough sets Over 300 exercises allow the reader to master the topics considered The book can be used as a textbook and as a reference work

[Transactions on Rough Sets V](#) James F. Peters, Andrzej Skowron,2006-10-12 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues 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 fifth volume of the Transactions on Rough Sets is dedicated to the monumental life work and creative genius of Zdzisław 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 In addition this volume of the TRS includes a complete monograph on rough sets and approximate Boolean reasoning systems that includes both the foundations as well as applications of data mining [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 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 multi-faceted 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 Dantsch, 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.

*Transactions on Rough Sets IX* Henryk Rybinski, 2008-12-18. This book is the ninth volume of the Transactions on Rough Sets series. The 26 papers in it introduce new advances in the foundations and applications of artificial intelligence, engineering, image processing, logic, mathematics, medicine, music, and science. *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 Zdzisław 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 Zdzisław 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. *Transactions on Rough Sets XI*, 2010-01-10.

Volume XI of the Transactions on Rough Sets TRS provides evidence of further growth in the rough set landscape both in terms of its foundations and applications. This volume provides further evidence of the number of research streams that were either directly or indirectly initiated by the seminal work on rough 1-sets by Zdzisław Pawlak (1926-2006). Evidence of the growth of various rough 2-set based research streams can be found in the rough set database.

This volume contains articles introducing advances in the foundations and applications of rough sets. These advances include

calculus of attribute value pairs useful in mining numerical data decidability and coalescence of approximations variable consistency generalization approach to bagging controlled by measures of consistency classical and dominance based rough sets in the search for genes judgement about satisfiability under incomplete information irreducible descriptive sets of attributes for information systems useful in the design of concurrent data models computational theory of perceptions CTP and its characteristics and the relation with fuzzy granulation methods and algorithms of the Net TRS system a recursive version of the apriori algorithm designed for parallel processing and decision table reduction method based on fuzzy rough sets The editors and authors of this volume extend their gratitude to the reviewers of articles in this volume Alfred Hofmann Ursula Barth Christine Reiss and the LNCS staff at Springer for their support in making this volume of the TRS possible Transactions on Rough Sets VIII, 2008-08-06 Volume VIII of the Transactions on Rough Sets TRS contains a wide spectrum of contributions to the theory and applications of rough sets The pioneering work by Prof Zdzisław Pawlak led to the introduction of knowledge representation systems during the early 1970s and the discovery of rough sets during the early 1980s During his lifetime he nurtured worldwide interest in approximation approximate reasoning and rough set theory and its applications Evidence of the influence of Prof Pawlak's work can be seen in the growth in the rough set literature that now includes over 4000 publications by more than 1900 authors in the rough set database as well as the growth and maturity of the International Rough Set Society This volume of TRS presents papers that introduce a number of new advances in the foundations and applications of artificial intelligence engineering logic mathematics and science These advances have significant implications in a number of research areas In addition it is evident from the papers included in this volume that rough set theory and its application form a very active research area worldwide A total of 58 researchers from 11 countries are represented in this volume namely Australia Canada Chile Germany India Poland P R China Oman Spain Sweden and the USA Evidence of the vigor breadth and depth of research in the theory and applications of rough sets can be found in the articles in this volume This volume contains 17 papers that explore a number of research streams Rough Sets and Intelligent Systems Paradigms Marzena Kryszkiewicz, Chris Cornelis, Davide Ciucci, Jesús Medina-Moreno, Hiroshi Motoda, Zbigniew Ras, 2014-06-13 This book constitutes the refereed proceedings of the 23rd Australasian Joint Conference on Rough Sets and Intelligent Systems Paradigms RSEISP 2014 held in Granada and Madrid Spain in July 2014 RSEISP 2014 was held along with the 9th International Conference on Rough Sets and Current Trends in Computing RSCTC 2014 as a major part of the 2014 Joint Rough Set Symposium JRS 2014 JRS 2014 received 40 revised full papers and 37 revised short papers which were carefully reviewed and selected from 120 submissions and presented in two volumes This volume contains the papers accepted for the conference RSEISP 2014 as well as the three invited papers presented at the conference The papers are organized in topical sections on plenary lecture and tutorial papers foundations of rough set theory granular computing and covering based rough sets applications of rough sets induction of decision rules theory and practice knowledge discovery spatial data analysis and

spatial databases information extraction from images      *Rough Sets and Current Trends in Computing* Wojciech Ziarko, Yiyu Yao, 2001-12-14 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Rough Sets and Current Trends in Computing RSCTC 2000 held in Banff Canada in October 2000 The 80 revised papers presented together with an introduction and three keynote presentations have gone through two rounds of reviewing and revision The papers are organized in topical sections on granular computing rough sets and systems fuzzy sets and systems rough sets and data mining nonclassical logics and reasoning pattern recognition and image processing neural networks and genetic algorithms and current trends in computing      **Rough Sets and Knowledge Technology** Davide Ciucci, Guoyin Wang, Sushmita Mitra, Wei-Zhi Wu, 2015-11-21 This book constitutes the thoroughly refereed conference proceedings of the 10th International Conference on Rough Sets and Knowledge Technology RSKT 2015 held in Tianjin China in November 2015 as part of the International Joint Conference on Rough Sets IJCRS 2015 together with the 15th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDgrC 2015 The 66 papers presented at IJCRS 2015 were carefully reviewed and selected from 97 submissions The 38 papers included in this volume are organized in the following topical sections rough sets the experts speak reducts and rules three way decisions logic and algebra clustering rough sets and graphs and modeling and learning In addition the volume contains 6 contributions by new fellows of the International Rough Set Society an invited talk and a tutorial      **Rough Set and Knowledge Technology** Jian Yu, Salvatore Greco, Pawan Lingras, Guoyin Wang, Andrzej Skowron, 2010-09-27 This book constitutes the refereed proceedings of the 5th International Conference on Rough Set and Knowledge Technology RSKT 2010 held in Beijing China in October 2010 The 98 revised full papers presented were carefully reviewed and selected from 175 initial submissions The papers are organized in topical sections on rough sets and computing theory fuzzy sets knowledge technology intelligent information processing health informatics and biometrics authentication neural networks complex networks granular computing metaheuristic cloud model and its application data mining in cloud computing decision theoretic rough set model and quotient space theory research and application      *Transactions on Rough Sets VI* James F. Peters, Ivo Düntsch, Jerzy Grzymala-Busse, Ewa Orłowska, Lech Polkowski, 2007-03-08 Annotation The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues 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 Volume VI of the Transactions on Rough Sets TRS commemorates the life and work of Zdzisław Pawlak 1926 2006 His legacy is rich and varied Prof Pawlak's research contributions have had far reaching implications inasmuch as his works are fundamental in establishing new perspectives for scientific research in a wide spectrum of fields This volume of the TRS presents papers that reflect the profound influence of a number of research initiatives by Professor Pawlak In particular this volume introduces a

number of new advances in the foundations and applications of artificial intelligence engineering logic mathematics and science These advances have significant implications in a number of research areas such as the foundations of rough sets approximate reasoning bioinformatics computational intelligence cognitive science data mining information systems intelligent systems machine intelligence and security

*Rough Computing: Theories, Technologies and Applications* Hassanien, Aboul Ella, Suraj, Zbigniew, Slezak, Dominik, Lingras, Pawan, 2007-08-31 Covers key rough computing research surveying a full range of topics and examining defining issues of the field

**Rough Sets and Current Trends in Computing** Shusaku Tsumoto, Roman Slowiński, Jan Komorowski, Jerzy W. Grzymala-Busse, 2004-06-16 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 We are observing a growing research interest in the foundations of rough sets 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 identification of autonomous systems and process specification Methods based on rough set theory alone or in combination with other approaches have been discovered with a wide range of applications in such areas as acoustics bioinformatics business and finance chemistry computer engineering e.g. data compression digital image processing digital signal processing parallel and distributed computer systems sensor fusion fractal engineering decision analysis and systems economics electrical engineering e.g. control signal analysis power systems environmental studies informatics medicine molecular biology musicology neurology robotics social science software engineering spatial visualization Web engineering and Web mining

*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



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