

STUDIES IN FUZZINESS
AND SOFT COMPUTING

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

**James F. Peters, Andrzej
Skowron, Henryk Rybinski**



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

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 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, 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 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 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

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

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

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 deniability 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 1 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 2 by more than 1900 authors in the rough set database as well as the growth and 3 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 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.

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.

Hybrid Rough Sets and Applications in Uncertain Decision-Making Lirong Jian, Sifeng Liu, Yi Lin, 2010-09-07. As a powerful approach to data reasoning, rough set theory has proven to be invaluable in knowledge acquisition, decision analysis, and forecasting and knowledge discovery. With the ability to enhance the advantages of other soft technology theories, hybrid rough set theory is quickly emerging as a method of choice for decision making under uncertainty.

Rough-Neural Computing Sankar Kumar Pal, Lech Polkowski, 2012-12-06. Soft computing comprises various paradigms dedicated to approximately solving real world problems, e.g. in decision making, classification, or learning. Among these paradigms are fuzzy sets, rough sets, neural networks, genetic algorithms, and others. It is well understood now in the soft computing community that hybrid approaches combining various paradigms are very promising approaches for solving complex problems. Exploiting the potential and strength of both neural networks and rough sets, this book is devoted to rough neuro computing which is also related to the novel aspect of computing based on information granulation, in particular to computing with words. It provides foundational and

methodological issues as well as applications in various fields

Rough Sets and Intelligent Systems - Professor Zdzisław Pawlak in Memoriam Andrzej Skowron, Zbigniew Suraj, 2012-08-14 This book is dedicated to the memory of Professor Zdzisław Pawlak who passed away almost six years ago. He is the founder of the Polish school of Artificial Intelligence and one of the pioneers in Computer Engineering and Computer Science with worldwide influence. He was a truly great scientist, researcher, teacher, and a human being. This book, prepared in two volumes, contains more than 50 chapters. This demonstrates that the scientific approaches discovered by Professor Zdzisław Pawlak, especially the rough set approach as a tool for dealing with imperfect knowledge, are vivid and intensively explored by many researchers in many places throughout the world. The submitted papers prove that interest in rough set research is growing and it is possible to see many new excellent results both on theoretical foundations and applications of rough sets alone or in combination with other approaches. We are proud to offer the readers this book.

Transactions on Rough Sets IX James F. Peters, Andrzej Skowron, Henryk Rybinski, 2008-12-18 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 book, which constitutes the ninth volume of the Transactions on Rough Sets series, providing evidence of the continuing growth of a number of research streams. It includes articles that are extensions of papers included in the first conference on Rough Sets and Intelligent Systems Paradigms. The 26 papers presented in this volume introduce a number of new advances in the foundations and applications of artificial intelligence, engineering, image processing, logic, mathematics, medicine, music, and science.

Transactions on Rough Sets IV James F. Peters, 2005-11-04 Volume IV of the Transactions on Rough Sets (TRS) introduces a number of new advances in the theory and application of rough sets. Rough sets and proximal spaces were introduced more than 30 years ago by Zdzisław Pawlak. These advances have profound implications in a number of research areas such as the foundations of rough sets, approximate reasoning, artificial intelligence, bioinformatics, computational intelligence, cognitive science, intelligent systems, data mining, machine intelligence, and security. In addition, it is evident from the papers included in this volume that the foundations and applications of rough sets is a very active research area worldwide. A total of 16 researchers from 7 countries are represented in this volume: namely Canada, India, Norway, Sweden, Poland, Russia, and the United States of America. Evidence of the vigor, breadth, and depth of research in the theory and applications of rough sets can be found in the 10 articles in this volume. Prof. Pawlak has contributed a treatise on the philosophical underpinnings of rough sets. In this treatise, observations are made about the Cantor notion of a set, antinomies arising from Cantor sets, the problem of vagueness, especially vague, imprecise concepts, fuzzy sets, rough sets, fuzzy vs. rough sets, as well as logic and rough sets. Among the many vistas and research directions suggested by Prof. Pawlak, one of the most fruitful concerns the model for a rough membership function.

which was incarnated in many different forms since its introduction by Pawlak and Skowron in 1994. Recall here that Prof

Rough Sets in Knowledge Discovery 1 Lech Polkowski, Andrzej Skowron, 1998-07-20. The ideas and techniques worked out in Rough Set Theory allow for knowledge reduction and to finding near to functional dependencies in data. This fact determines the importance of these techniques for the rapidly growing field of knowledge discovery. Volume 1 and 2 will bring together articles covering the present state of the methods developed in this field of research. Among the topics covered we may mention rough mereology and rough mereological approach to knowledge discovery in distributed systems, discretization and quantization of attributes, morphological aspects of rough set theory, analysis of default rules in the framework of rough set theory. An overview on the role of fuzzy set techniques in big data processing: Trends, challenge and opportunities Hai Wang, Zeshui Xu, Witold Pedrycz, In the era of big data we are facing with an immense volume and high velocity of data with complex structures. Rough Sets and Current Trends in Computing, 2002.

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