

STUDIES I *FUZZINESS* AND *SOFT COMPUTING*

Lech Polkowski
Andrzej Skowron
Editors

Rough Sets in Knowledge Discovery

2 Applications, Case Studies
and Software Systems

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Rough Sets In Knowledge Discovery 2 Applications Case Studies And Software Systems

James F. Peters, Andrzej Skowron



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Rough Sets in Knowledge Discovery 2 Lech Polkowski, 2013-03-14 The papers on rough set theory and its applications placed in this volume present a wide spectrum of problems representative to the present stage of this theory Researchers from many countries reveal their recent results on various aspects of rough sets The papers are not confined only to mathematical theory but also include algorithmic aspects applications and information about software designed for data analysis based on this theory The volume contains also list of selected publications on rough sets which can be very useful to every one engaged in research or applications in this domain and sometimes perhaps unaware of results of other authors The book shows that rough set theory is a vivid and vigorous domain with serious results to its credit and bright perspective for future developments It lays on the crossroads of fuzzy sets theory of evidence neural networks Petri nets and many other branches of AI logic and mathematics These diverse connections seem to be a very fertile feature of rough set theory and have essentially contributed to its wide and rapid expansion It is worth mentioning that its philosophical roots stretch down from Leibniz Frege and Russell up to Popper Therefore many concepts dwelled on in rough set theory are not entirely new nevertheless the theory can be viewed as an independent discipline on its own rights Rough set theory has found many interesting real life applications in medicine banking industry and others

Rough Sets in Knowledge Discovery 2 Lech Polkowski, Andrzej Skowron, 1998-08-20 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

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 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 Salavatore Greco, Yukata Hata, Shoji Hirano, Masahiro Inuiguchi, Sadaaki Miyamoto, Hung Son Nguyen, Roman Slowiński, 2006-10-26 This

book constitutes the refereed proceedings of the 5th International Conference on Rough Sets and Current Trends in Computing RSCTC 2006 held in Kobe Japan in November 2006 The 91 revised full papers presented together with five invited papers and two commemorative papers were carefully reviewed and selected from 332 submissions **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 Encyclopedia of Data Warehousing and Mining Wang, John, 2005-06-30 Data Warehousing and Mining DWM is the science of managing and analyzing large datasets and discovering novel patterns and in recent years has emerged as a particularly exciting and industrially relevant area of research Prodigious amounts of data are now being generated in domains as diverse as market research functional genomics and pharmaceuticals intelligently analyzing these data with the aim of answering crucial questions and helping make informed decisions is the challenge that lies ahead The Encyclopedia of Data Warehousing and Mining provides a comprehensive critical and descriptive examination of concepts issues trends and challenges in this rapidly expanding field of data warehousing and mining DWM This encyclopedia consists of more than 350 contributors from 32 countries 1 800 terms and definitions and more than 4 400 references This authoritative publication offers in depth coverage of evolutions theories methodologies functionalities and applications of DWM in such interdisciplinary industries as healthcare informatics artificial intelligence financial modeling and applied statistics making it a single source of knowledge and latest discoveries in the field of DWM Pattern Recognition And Big Data Sankar Kumar Pal, Amita Pal, 2016-12-15 Containing twenty six contributions by experts from all over the world this book presents both research and review material describing the evolution and recent developments of various pattern recognition methodologies ranging from statistical linguistic fuzzy set theoretic neural evolutionary computing and rough set theoretic to hybrid soft computing with significant real life applications Pattern Recognition and Big Data provides state of the art classical and modern approaches to pattern recognition and mining with extensive real life applications The book describes efficient soft and robust machine learning algorithms and granular computing techniques for data mining and knowledge discovery and the issues associated with handling Big Data Application domains considered include bioinformatics cognitive machines or machine mind developments biometrics computer vision the e nose remote sensing and social network analysis **Rough Sets** Hung Son Nguyen, Quang-Thuy Ha, Tianrui Li, Małgorzata Przybyła-Kasperek, 2018-08-14 This LNAI 1103 constitutes the proceedings of the International Joint Conference on Rough Sets IJCRS 2018 held in Quy Nhon Vietnam in August 2018 The 40 full papers presented together with 5 short papers were carefully reviewed and selected from 61 submissions The IJCRS conferences aim at bringing together experts from universities and research centers as well as the industry representing fields of research in which theoretical and applicational aspects of rough set theory already find or may potentially find usage

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 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

Handbook of Granular Computing Witold Pedrycz, Andrzej Skowron, Vladik Kreinovich, 2008-07-31 Although the notion is a relatively recent one the notions and principles of Granular Computing GrC have appeared in a different guise in many related fields including granularity in Artificial Intelligence interval computing cluster analysis quotient space theory and many others Recent years have witnessed a renewed and expanding interest in the topic as it begins to play a key role in bioinformatics e commerce machine learning security data mining and wireless mobile computing when it comes to the issues of effectiveness robustness and uncertainty The Handbook of Granular Computing offers a comprehensive reference source for the granular computing community edited by and with contributions from leading experts in the field Includes chapters covering the foundations of granular computing interval analysis and fuzzy set theory hybrid methods and models of granular computing and applications and case studies Divided into 5 sections Preliminaries Fundamentals Methodology and Algorithms Development of Hybrid Models and Applications and Case Studies Presents the flow of ideas in a systematic well organized manner starting with the concepts and motivation and proceeding to detailed design that materializes in specific algorithms applications and case studies Provides the reader with a self contained reference that includes all pre requisite knowledge augmented with step by step explanations of more advanced concepts The Handbook of Granular Computing represents a significant and valuable contribution to the literature and will appeal to a broad audience including researchers students and practitioners in the fields of Computational Intelligence pattern recognition fuzzy sets and neural networks system modelling operations research

and bioinformatics *Transactions on Rough Sets XXII* James F. Peters, Andrzej Skowron, 2020-12-16 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 XXII in the series is a continuation of a number of research streams that have grown out of the seminal work of Zdzislaw Pawlak during the first decade of the 21st century

Encyclopedia of Library and Information Science Allen Kent, 2000-09-21 This is the 68th volume supplement 31 in a series which examines library and information science **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 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 **Transactions on Rough Sets III** James F. Peters, 2005-05-17 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 third volume of the Transactions on Rough Sets presents 11 revised papers that have been through a careful peer reviewing process by the journal's Editorial Board The research monograph Time Complexity of Decision Trees by Mikhail Ju Moshkov is presented in the section on dissertation and monographs Among the regular papers the one by Zdzislaw Pawlak entitled Flow Graphs and Data Mining deserves a special

mention *Autonomous Robotic Systems* Changjiu Zhou, Darío Maravall, Da Ruan, 2013-03-20 This book contains an edited collection of eighteen contributions on soft and hard computing techniques and their applications to autonomous robotic systems Each contribution has been exclusively written for this volume by a leading researcher The volume demonstrates the various ways that the soft computing and hard computing techniques can be used in different integrated manners to better develop autonomous robotic systems that can perform various tasks of vision perception cognition thinking pattern recognition decision making and reasoning and control amongst others Each chapter of the book is self contained and points out the future direction of research It is a must reading for students and researchers interested in exploring the potentials of the fascinating field that will form the basis for the design of the intelligent machines of the future Madan M Gupta

Emerging Paradigms in Machine Learning Sheela Ramanna, Lakhmi C Jain, Robert J. Howlett, 2012-07-31 This book presents fundamental topics and algorithms that form the core of machine learning ML research as well as emerging paradigms in intelligent system design The multidisciplinary nature of machine learning makes it a very fascinating and popular area for research The book is aiming at students practitioners and researchers and captures the diversity and richness of the field of machine learning and intelligent systems Several chapters are devoted to computational learning models such as granular computing rough sets and fuzzy sets An account of applications of well known learning methods in biometrics computational stylistics multi agent systems spam classification including an extremely well written survey on Bayesian networks shed light on the strengths and weaknesses of the methods Practical studies yielding insight into challenging problems such as learning from incomplete and imbalanced data pattern recognition of stochastic episodic events and on line mining of non stationary data streams are a key part of 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 Intelligent Decision Technologies Junzo Watada, Toyohide Watanabe, Gloria Phillips-Wren, Robert J. Howlett, Lakhmi C Jain, 2012-05-20 The Intelligent Decision Technologies IDT International Conference encourages an interchange of research on intelligent systems and intelligent technologies that enhance or improve decision making The focus of IDT is interdisciplinary and includes research on all aspects of intelligent decision

technologies from fundamental development to real applications IDT has the potential to expand their support of decision making in such areas as finance accounting marketing healthcare medical and diagnostic systems military decisions production and operation networks traffic management crisis response human machine interfaces financial and stock market monitoring and prediction and robotics Intelligent decision systems implement advances in intelligent agents fuzzy logic multi agent systems artificial neural networks and genetic algorithms among others Emerging areas of active research include virtual decision environments social networking 3D human machine interfaces cognitive interfaces collaborative systems intelligent web mining e commerce e learning e business bioinformatics evolvable systems virtual humans and designer drugs This volume contains papers from the Fourth KES International Symposium on Intelligent Decision Technologies KES IDT 12 hosted by researchers in Nagoya University and other institutions in Japan This book contains chapters based on papers selected from a large number of submissions for consideration for the conference from the international community The volume represents the current leading thought in intelligent decision technologies

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