

James G. Shanahan

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SOFT COMPUTING FOR KNOWLEDGE DISCOVERY

INTRODUCING CARTESIAN GRANULE FEATURES

Foreword by Lotfi Zadeh

Data and Background
Knowledge Acquisition

Select Knowledge
Representation

Data Preparation

Machine Learning

Model Interpretation
and Evaluation

K
NOWLEDGE

Soft Computing For Knowledge Discovery Introducing Cartesian Granule Features

James G. Shanahan



Soft Computing For Knowledge Discovery Introducing Cartesian Granule Features:

Soft Computing for Knowledge Discovery James G. Shanahan, 2012-12-06 Knowledge discovery is an area of computer science that attempts to uncover interesting and useful patterns in data that permit a computer to perform a task autonomously or assist a human in performing a task more efficiently Soft Computing for Knowledge Discovery provides a self contained and systematic exposition of the key theory and algorithms that form the core of knowledge discovery from a soft computing perspective It focuses on knowledge representation machine learning and the key methodologies that make up the fabric of soft computing fuzzy set theory fuzzy logic evolutionary computing and various theories of probability e g naive Bayes and Bayesian networks Dempster Shafer theory mass assignment theory and others In addition to describing many state of the art soft computing approaches to knowledge discovery the author introduces Cartesian granule features and their corresponding learning algorithms as an intuitive approach to knowledge discovery This new approach embraces the synergistic spirit of soft computing and exploits uncertainty in order to achieve tractability transparency and generalization Parallels are drawn between this approach and other well known approaches such as naive Bayes and decision trees leading to equivalences under certain conditions The approaches presented are further illustrated in a battery of both artificial and real world problems Knowledge discovery in real world problems such as object recognition in outdoor scenes medical diagnosis and control is described in detail These case studies provide further examples of how to apply the presented concepts and algorithms to practical problems The author provides web page access to an online bibliography datasets source codes for several algorithms described in the book and other information *Soft Computing for Knowledge Discovery* James G. Shanahan, 2014-01-15

Data Mining, Rough Sets and Granular Computing Tsau Young Lin, Yiyu Y. Yao, Lotfi A. Zadeh, 2013-11-11 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

Distributed Computing and Networking Shrisha Rao, 2008-02-06 This book

constitutes the refereed proceedings of the 9th International Conference on Distributed Computing and Networking ICDCN 2008 formerly known as IWDC International Workshop on Distributed Computing held in Kolkata India in January 2008 The 30 revised full papers and 27 revised short papers presented together with 3 keynote talks and 1 invited lecture were carefully reviewed and selected from 185 submissions The papers are organized in topical sections on agreement protocols fault tolerance and synchronization self stabilization scheduling clustering and data mining parallel architectures and algorithms mobile agents and cryptography in the distributed computing track and on sensor networks internet and security wireless networks ad hoc networks optical networks QoS and multimedia in the networking track

Classification and Modeling with Linguistic Information Granules Hisao Ishibuchi, Tomoharu Nakashima, Manabu Nii, 2006-02-27 Many approaches have already been proposed for classification and modeling in the literature These approaches are usually based on mathematical models Computer systems can easily handle mathematical models even when they are complicated and nonlinear e.g. neural networks On the other hand it is not always easy for human users to intuitively understand mathematical models even when they are simple and linear This is because human information processing is based mainly on linguistic knowledge while computer systems are designed to handle symbolic and numerical information A large part of our daily communication is based on words We learn from various media such as books newspapers magazines TV and the Internet through words We also communicate with others through words While words play a central role in human information processing linguistic models are not often used in the fields of classification and modeling If there is no goal other than the maximization of accuracy in classification and modeling mathematical models may always be preferred to linguistic models On the other hand linguistic models may be chosen if emphasis is placed on interpretability

Fuzzy Logic and Applications Vito Di Gesù, Francesco Masulli, Alfredo Petrosino, 2006-01-25 This volume constitutes the thoroughly refereed post workshop proceedings of the 5th International Workshop on Fuzzy Logic and Applications held in Naples Italy in October 2003 The 40 revised full papers presented have gone through two rounds of reviewing and revision All current issues of theoretical experimental and applied fuzzy logic and related techniques are addressed with special attention to rough set theory neural networks genetic algorithms and soft computing The papers are organized in topical section on fuzzy sets and systems fuzzy control neuro fuzzy systems fuzzy decision theory and application and soft computing in image processing

Modeling And Simulation In Science - Proceedings Of The 6th International Workshop On Data Analysis In Astronomy

«**Livio Scarsi**» Giosue Lo Bosco, Vito Di Gesù, Maria Concetta Maccarone, 2007-12-13 This proceedings volume contains results presented at the Sixth International Workshop on Data Analysis in Astronomy Modeling and Simulation in Science held on April 15-22 2007 at the Ettore Majorana Foundation and Center for Scientific Culture Erice Italy Recent progress and new trends in the field of simulation and modeling in three branches of science astrophysics biology and climatology are described in papers presented by outstanding scientists The impact of new technologies on the design of novel data analysis

systems and the interrelation among different fields are foremost in scientists minds in the modern era This book therefore focuses primarily on data analysis methodologies and techniques

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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

Machine Learning and Big Data Uma N. Dulhare,Khaleel Ahmad,Khairol Amali Bin Ahmad,2020-09-01 This book is intended for academic and industrial developers exploring and developing applications in the area of big data and machine learning including those that are solving technology requirements evaluation of methodology advances and algorithm demonstrations The intent of this book is to provide awareness of algorithms used for machine learning and big data in the academic and professional community The 17

chapters are divided into 5 sections Theoretical Fundamentals Big Data and Pattern Recognition Machine Learning Algorithms Machine Learning's Next Frontier and Hands On and Case Study While it dwells on the foundations of machine learning and big data as a part of analytics it also focuses on contemporary topics for research and development In this regard the book covers machine learning algorithms and their modern applications in developing automated systems Subjects covered in detail include Mathematical foundations of machine learning with various examples An empirical study of supervised learning algorithms like Naïve Bayes KNN and semi supervised learning algorithms viz S3VM Graph Based Multiview Precise study on unsupervised learning algorithms like GMM K mean clustering Dritchlet process mixture model X means and Reinforcement learning algorithm with Q learning R learning TD learning SARSA Learning and so forth Hands on machine leaning open source tools viz Apache Mahout H2O Case studies for readers to analyze the prescribed cases and present their solutions or interpretations with intrusion detection in MANETS using machine learning Showcase on novel user cases Implications of Electronic Governance as well as Pragmatic Study of BD ML technologies for agriculture healthcare social media industry banking insurance and so on

An Ontological and Epistemological Perspective of Fuzzy Set Theory I. Burhan Türksen, 2005-11-15 Fuzzy set and logic theory suggest that all natural language linguistic expressions are imprecise and must be assessed as a matter of degree But in general membership degree is an imprecise notion which requires that Type 2 membership degrees be considered in most applications related to human decision making schemas Even if the membership functions are restricted to be Type1 their combinations generate an interval valued Type 2 membership This is part of the general result that Classical equivalences breakdown in Fuzzy theory Thus all classical formulas must be reassessed with an upper and lower expression that are generated by the breakdown of classical formulas Key features Ontological grounding Epistemological justification Measurement of Membership Breakdown of equivalences FDCF is not equivalent to FCCF Fuzzy Beliefs Meta Linguistic axioms Ontological grounding Epistemological justification Measurement of Membership Breakdown of equivalences FDCF is not equivalent to FCCF Fuzzy Beliefs Meta Linguistic axioms

Modelling and Reasoning with Vague Concepts Jonathan Lawry, 2006-06-17 This volume introduces a formal representation framework for modelling and reasoning that allows us to quantify the uncertainty inherent in the use of vague descriptions to convey information between intelligent agents This can then be applied across a range of applications areas in automated reasoning and learning The utility of the framework is demonstrated by applying it to problems in data analysis where the aim is to infer effective and informative models expressed as logical rules and relations involving vague concept descriptions The author also introduces a number of learning algorithms within the framework that can be used for both classification and prediction regression problems It is shown how models of this kind can be fused with qualitative background knowledge such as that provided by domain experts The proposed algorithms will be compared with existing learning methods on a range of benchmark databases such as those from the UCI repository

Pattern Recognition Sankar

K. Pal, Amita Pal, 2001 This volume containing contributions by experts from all over the world is a collection of 21 articles which present review and research material describing the evolution and recent developments of various pattern recognition methodologies ranging from statistical syntactic linguistic fuzzy set theoretic neural genetic algorithmic and rough set theoretic to hybrid soft computing with significant real life applications In addition the book describes efficient soft machine learning algorithms for data mining and knowledge discovery With a balanced mixture of theory algorithms and applications as well as up to date information and an extensive bibliography Pattern Recognition From Classical to Modern Approaches is a very useful resource The ... IEEE International Conference on Fuzzy Systems Proceedings ,1998 **Mathematical Reviews** ,2001 *Joint 9th IFSA World Congress and 20th NAFIPS International Conference* Michael H. Smith, W. A. Gruver, Lawrence O. Hall, 2001 **Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004 Novel Developments in Granular Computing: Applications for Advanced Human Reasoning and Soft Computation Yao, JingTao, 2010-06-30 This book investigates granular computing GrC which emerged as one of the fastest growing information processing paradigms in computational intelligence and human centric systems Provided by publisher **First IEEE International Conference on Cognitive Informatics** Yingxu Wang, Ronald H. Johnston, 2002 Cognitive informatics is a cutting edge and profound interdisciplinary research area that tackles the common root problems of modern informatics computation software engineering AI cognitive science and life sciences ICCI 02 focuses on the natural information processing mechanisms and cognitive processes of the brain *American Book Publishing Record* R.R. Bowker Company, 1978

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