Przemyslaw Grzegorzewski
Olgierd Hryniewicz et. al. *Editors*

Soft Methods in Probability, Statistics and Data Analysis

Soft Methods In Probability Statistics And Data Analysis

Jonathan Lawry

Soft Methods In Probability Statistics And Data Analysis:

Soft Methods in Probability, Statistics and Data Analysis Przemyslaw Grzegorzewski,Olgierd Hryniewicz,Maria A. Gil,2013-12-11 Classical probability theory and mathematical statistics appear sometimes too rigid for real life problems especially while dealing with vague data or imprecise requirements These problems have motivated many researchers to soften the classical theory Some softening approaches utilize concepts and techniques developed in theories such as fuzzy sets theory rough sets possibility theory theory of belief functions and imprecise probabilities etc Since interesting mathematical models and methods have been proposed in the frameworks of various theories this text brings together experts representing different approaches used in soft probability statistics and data analysis   Combining Soft Computing and Statistical Methods in Data Analysis Christian Borgelt,Gil Gonz Rodr Guez,Wolfgang Trutschnig,2011-03-13   Soft Methods for Integrated Uncertainty Modelling Jonathan Lawry,Enrique Miranda,Alberto Bugarin,Shoumei Li,Maria Angeles Gil,Przemyslaw Grzegorzewski,Olgierd Hryniewicz,2007-10-08 The idea of soft computing emerged in the early 1990s from the fuzzy systems c munity and refers to an understanding that the uncertainty imprecision and ig rance present in a problem should be explicitly represented and possibly even ploited rather than either eliminated or ignored in computations For instance Zadeh de ned Soft Computing as follows Soft computing differs from conventional hard computing in that unlike hard computing it is tolerant of imprecision uncertainty and partial truth In effect the role model for soft computing is the human mind Recently soft computing has to some extent become synonymous with a hybrid approach combining AI techniques including fuzzy systems neural networks and biologically inspired methods such as genetic algorithms Here however we adopt a more straightforward de nition consistent with the original concept Hence soft methods are understood as those uncertainty formalisms not part of mainstream s tistics and probability theory which have typically been developed within the AI and decisionanalysiscommunity Thesearemathematicallysounduncertaintymodelling methodologies which are complementary to conventional statistics and probability theory   **Soft Methods for Handling Variability and Imprecision** Didier Dubois,Maria Asuncion Lubiano,Henri Prade,María Angeles Gil,Przemyslaw Grzegorzewski,Olgierd Hryniewicz,2008-10-01 Probability theory has been the only well founded theory of uncertainty for a long time It was viewed either as a powerful tool for modelling random phenomena or as a rational approach to the notion of degree of belief During the last thirty years in areas centered around decision theory artificial intelligence and information processing numerous approaches extending or orthogonal to the existing theory of probability and mathematical statistics have come to the front The common feature of those attempts is to allow for softer or wider frameworks for taking into account the incompleteness or imprecision of information Many of these approaches come down to blending interval or fuzzy interval analysis with probabilistic methods This book gathers contributions to the 4th International Conference on Soft methods in Probability and Statistics Its aim is to present recent results illustrating such new trends that enlarge the statistical and uncertainty

modeling traditions towards the handling of incomplete or subjective information It covers a broad scope ranging from philosophical and mathematical underpinnings of new uncertainty theories with a stress on their impact in the area of statistics and data analysis to numerical methods and applications to environmental risk analysis and mechanical engineering A unique feature of this collection is to establish a dialogue between fuzzy random variables and imprecise probability theories **Information and Communications Security** Sihan Qing,Hideki Imai,Guilin Wang,2007-11-29 This book constitutes the refereed proceedings of the 9th International Conference on Information and Communications Security ICICS 2007 held in Zhengzhou China in December 2007 The papers presented were carefully reviewed and selected The papers are organized in topical sections on authentication and key exchange digital signatures applications watermarking fast implementations applied cryptography cryptanalysis formal analysis system security and network security Symbolic and Quantitative Approaches to Reasoning with Uncertainty Claudio Sossai,Gaetano Chemello,2009-06-19 These are the proceedings of the 10th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2009 held in Verona Italy July 1 3 2009 The biennial ECSQARU conferences are a major forum for advances in the theory and practice of reasoning under uncertainty The rst ECSQARU conf ence was held in Marseille 1991 and since then it has been held in Granada 1993 Fribourg 1995 Bonn 1997 London 1999 Toulouse 2001 Aalborg 2003 Barcelona 2005 and Hammamet 2007 The 76 papers gathered in this volume were selected out of 118 submissions from 34 countries after a rigorous review process In addition the conference included invited lectures by three outstanding researchers in the area Isabelle Bloch Fuzzy and bipolar mathematical morphology applications in spatial reasoning Petr Cintula From deductive fuzzy logic to logic based fuzzy mathematics andDaniele Mundici Conditionalsandindependence inma valued logics Twospecialsessionswerepresentedduringtheconference Conditioning dependence inference organizedby Giulianella Coletti and BarbaraVantaggi and Mathematicalfuzzy logic organizedby Stefano Aguzzoli Brunella Gerla Llu s Godo Vincenzo Marra Franco Montagna On the whole the program of the conference provided a broad rich and up to date perspective of the current high level research in the area which is re ected in the contents of this volume Intelligent Information Processing and Web Mining Mieczyslaw A. Klopotek,Slawomir T. Wierzchon,Krzysztof Trojanowski,2006-05-28 The international conference Intelligent Information Processing and Web Mining IIS IIPWM 05 organized in Gda sk Sobieszewo on 13 16th June 2005 was a continuation of a long tradition of conferences on applications of Arti cial Intelligence AI in Information Systems IS organized by the Institute of Computer Science of Polish Academy of Sciences in cooperation with other scienti c and business institutions The Institute itself is deeply engaged in research both in AI and IS and many scientists view it as a leading institution both in fundamental and plied research in these areas in Poland The originators of this conference series Prof M D browski and Dr M Michalewicz had in 1992 a long term goal of bringing together scientists and industry of di erent braches from Poland and abroad to achieve a creative synthesis One can say that their dream has come to reality Scientists

from ve continents made their subm sions to this conference A brief look at the a liations makes international cooperation visible The research papers have either a motivation in c crete applications or are o springs of some practical requests This volume presents the best papers carefully chosen from a large set of submissions about 45% At this point we would like to express our thanks to the m bers of Programme Committee for their excellent job Also we are thankful to the organizers of the special sessions accompanying this conference Jan Komorowski Adam Przepi rkowski Zbigniew W __Symbolic and Quantitative Approaches to Reasoning with Uncertainty__ Lluis Godo,2005-06-24 These are the proceedings of the 8th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2005 held in Barcelona Spain July 6 8 2005 The ECSQARU conferences are biennial and have become a major forum for advances in the theory and practice of r soning under uncertainty The rst ECSQARU conference was held in Marseille 1991 and after in Granada 1993 Fribourg 1995 Bonn 1997 London 1999 Toulouse 2001 and Aalborg 2003 The papers gathered in this volume were selected out of 130 submissions after a strict review process by the members of the Program Committee to be presented at ECSQARU 2005 In addition the conference included invited lectures by three outstanding researchers in the area Seraf n Moral Imprecise Probabilities Rudolf Kruse Graphical Models in Planning and J er ome Lang Social Choice Moreover the application of uncertainty models to real world problems was addressed at ECSQARU 2005 by a special session devoted to s cessful industrial applications organized by Rudolf Kruse Both invited lectures and papers of the special session contribute to this volume On the whole the programme of the conference provided a broad rich and up to date perspective of the current high level research in the area which is re ected in the contents of this volume IwouldliketowarmlythankthemembersoftheProgramCommitteeandthe additional referees for their valuable work the invited speakers and the invited session organizer **Computational Intelligence in Reliability Engineering** Gregory Levitin,2007-01-10 This two volume book covers the recent applications of computational intelli gence techniques in reliability engineering Research in the area of computational intelligence is growing rapidly due to the many successful applications of these new techniques in very diverse problems Computational Intelligence covers many fields such as neural networks fu zzy logic evolutionary computing and their hybrids and derivatives Many indus tries have benefited from adopting this technology The increased number of patents and diverse range of products devel oped using computational intelligence methods is evidence of this fact These techniques have attracted increasing attention in recent years for solving many complex problems They are inspired by nature biology statistical tech niques physics and neuroscience They have been successfully applied in solving many complex problems where traditional problem solving methods have failed The book aims to be a repository for the current and cutting edge applications of computational intelligent techniques in reliability analysis and optimization **Coping with Uncertainty** Kurt Marti,Yuri Ermoliev,Marek Makowski,2009-12-24 Support for addressing the on going global changes needs solutions for new scientific problems which in turn require new concepts and

tools A key issue concerns a vast variety of irreducible uncertainties including extreme events of high multidimensional consequences e g the climate change The dilemma is concerned with enormous costs versus massive uncertainties of extreme impacts Traditional scientific approaches rely on real observations and experiments Yet no sufficient observations exist for new problems and pure experiments and learning by doing may be expensive dangerous or impossible In addition the available historical observations are often contaminated by past actions and policies Thus tools are presented for the explicit treatment of uncertainties using synthetic information composed of available hard data from historical observations the results of possible experiments and scientific facts as well as soft data from experts opinions and scenarios   Fuzzy Logic and Applications Vito Di Gesù,Sankar Kumar Pal,Alfredo Petrosino,2009-06-07 Annotation This volume constitutes the refereed proceedings of the 8th International Workshop on Fuzzy Logic and Applications held in Palermo Italy in June 2009 The papers are organized in topical sections on fuzzy set theory intuitionistic fuzzy sets fuzzy classification and clustering fuzzy image processing and analysis and fuzzy systems   *Machine Learning* Kai-Zhu Huang,Haiqin Yang,Irwin King,Michael R. Lyu,2008-09-24 Machine Learning Modeling Data Locally and Globally presents a novel and unified theory that tries to seamlessly integrate different algorithms Specifically the book distinguishes the inner nature of machine learning algorithms as either local learningor global learning This theory not only connects previous machine learning methods or serves as roadmap in various models but more importantly it also motivates a theory that can learn from data both locally and globally This would help the researchers gain a deeper insight and comprehensive understanding of the techniques in this field The book reviews current topics new theories and applications Kaizhu Huang was a researcher at the Fujitsu Research and Development Center and is currently a research fellow in the Chinese University of Hong Kong Haiqin Yang leads the image processing group at HiSilicon Technologies Irwin King and Michael R Lyu are professors at the Computer Science and Engineering departmentof the Chinese University of Hong Kong   **Soft Methodology and Random Information Systems** Miguel Concepcion Lopez-Diaz,Maria Angeles Gil,Przemyslaw Grzegorzewski,Olgierd Hryniewicz,Jonathan Lawry,2013-06-05 The analysis of experimental data resulting from some underlying random process is a fundamental part of most scientific research Probability Theory and Statistics have been developed as flexible tools for this analyis and have been applied successfully in various fields such as Biology Economics Engineering Medicine or Psychology However traditional techniques in Probability and Statistics were devised to model only a singe source of uncertainty namely randomness In many real life problems randomness arises in conjunction with other sources making the development of additional softening approaches essential This book is a collection of papers presented at the 2nd International Conference on Soft Methods in Probability and Statistics SMPS 2004 held in Oviedo providing a comprehensive overview of the innovative new research taking place within this emerging field   **AI 2008: Advances in Artificial Intelligence** Wayne Wobcke,2008-11-13 This book constitutes the refereed proceedings of the 21th Australasian Joint Conference on Artificial

Intelligence AI 2008 held in Auckland New Zealand in December 2008 The 42 revised full papers and 21 revised short papers presented together with 1 invited lecture were carefully reviewed and selected from 143 submissions The papers are organized in topical sections on knowledge representation constraints planning grammar and language processing statistical learning machine learning data mining knowledge discovery soft computing vision and image processing and AI applications

Kurzweil-Henstock Integral in Riesz spaces Antonio Boccuto,Beloslav Riecan,Marta Vrabelova,2009-01-15 This Ebook is concerned with both the theory of the Kurzweil Henstock integral and the basic facts on Riesz spaces Moreover even the so called Sipos integral which has several applications in economy is illustrated The aim of this Ebook is two fold

Strengthening Links Between Data Analysis and Soft Computing Przemyslaw Grzegorzewski,Marek Gagolewski,Olgierd Hryniewicz,María Ángeles Gil,2014-09-10 This book gathers contributions presented at the 7th International Conference on Soft Methods in Probability and Statistics SMPS 2014 held in Warsaw Poland on September 22 24 2014 Its aim is to present recent results illustrating new trends in intelligent data analysis It gives a comprehensive overview of current research into the fusion of soft computing methods with probability and statistics Synergies of both fields might improve intelligent data analysis methods in terms of robustness to noise and applicability to larger datasets while being able to efficiently obtain understandable solutions of real world problems   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   **Uncertainty and Imprecision in Decision Making and Decision Support: Cross-Fertilization, New Models and Applications** Krassimir T. Atanassov,Janusz Kacprzyk,Andrzej Kałuszko,Maciej Krawczak,Jan Owsiński,Sotir Sotirov,Evdokia Sotirova,Eulalia Szmidt,Sławomir Zadrożny,2017-10-06 This book presents selected papers from two important conferences held on October 12 14 2016 in Warsaw Poland the Fourteenth National Conference of Operational and Systems Research BOS 2016 one of the premiere conferences in the field of operational and systems research not only in Poland but also at the European level and the Fifteenth International Workshop on Intuitionistic Fuzzy Sets and General Nets IWIFSGN 2016 one of the foremost conferences on fuzzy logic notably addressing extensions of the traditional fuzzy sets as well as the Generalized Nets GNs a powerful extension of the traditional Petri net paradigm The

scope of the BOS con ferences includes all types of problems related to systems modeling systems analysis broadly perceived operational research optimization decision making and decision support to name but a few In all these areas virtually all models used have to take into account not only uncertainty in its traditional sense but also imprecision of information That is in addition to traditional probabilistic and statistical tools and techniques the use of methods based on fuzzy sets can also be sensible Even more so employing certain extensions of the classic concept of a fuzzy set can be very useful Applying intuitionistic fuzzy sets which are at the core of the IWIFSGN conferences is a good example Both conferences BOS 2016 and IWIFSGN 2016 offered ideal venues for the exchange of ideas cross fertilization and mutual inspiration *Issues and Challenges of Intelligent Systems and Computational Intelligence* László T. Kóczy,Claudiu R. Pozna,Janusz Kacprzyk,2014-01-11 This carefully edited book contains contributions of prominent and active researchers and scholars in the broadly perceived area of intelligent systems The book is unique both with respect to the width of coverage of tools and techniques and to the variety of problems that could be solved by the tools and techniques presented The editors have been able to gather a very good collection of relevant and original papers by prominent representatives of many areas relevant both to the theory and practice of intelligent systems artificial intelligence computational intelligence soft computing and the like The contributions have been divided into 7 parts presenting first more fundamental and theoretical contributions and then applications in relevant areas **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

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