

ADVANCES IN *SOFT COMPUTING*

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Soft Methodology and Random Information Systems

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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 analysis 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 single 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 **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 community and refers to an understanding that the uncertainty imprecision and ignorance present in a problem should be explicitly represented and possibly even exploited rather than either eliminated or ignored in computations For instance Zadeh defined 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 definition consistent with the original concept Hence soft methods are understood as those uncertainty formalisms not part of mainstream statistics and probability theory which have typically been developed within the AI and decision analysis community These are mathematically sound uncertainty modelling methodologies which are complementary to conventional statistics and probability theory Analysis and Design of Intelligent Systems Using Soft Computing Techniques

Patricia Melin, Oscar Castillo, Eduardo G. Ramirez, Witold Pedrycz, 2007-09-20 This book comprises a selection of papers on new methods for analysis and design of hybrid intelligent systems using soft computing techniques from the IFSA 2007 World Congress held in Cancun Mexico June 2007 **Computational Collective**

Intelligence Technologies and Applications Piotr Jedrzejowicz, Ngoc Thanh Nguyen, Kiem Hoang, 2011-09-13 The two volume set LNAI 6922 and LNAI 6923 constitutes the refereed proceedings of the Third International Conference on Computational Collective Intelligence ICCCI 2011 held in Gdynia Poland in September 2011 The 112 papers in this two volume set presented together with 3 keynote speeches were carefully reviewed and selected from 300 submissions The papers are organized in topical sections on knowledge management machine learning and applications autonomous and

collective decision making collective computations and optimization Web services and semantic Web social networks and computational swarm intelligence and applications Monitoring, Security, and Rescue Techniques in Multiagent Systems

Barbara Dunin-Keplicz, Andrzej Jankowski, Marcin Szczuka, 2005-01-14 In today's society the issue of security has become a crucial one This volume brings together contributions on the use of knowledge based technology in security applications by the world's leading researchers in the field **The Signed Distance Measure in Fuzzy Statistical Analysis** R dina

Berkachy, 2021-10-31 The main focus of this book is on presenting advances in fuzzy statistics and on proposing a methodology for testing hypotheses in the fuzzy environment based on the estimation of fuzzy confidence intervals a context in which not only the data but also the hypotheses are considered to be fuzzy The proposed method for estimating these intervals is based on the likelihood method and employs the bootstrap technique A new metric generalizing the signed distance measure is also developed In turn the book presents two conceptually diverse applications in which defended intervals play a role one is a novel methodology for evaluating linguistic questionnaires developed at the global and individual levels the other is an extension of the multi ways analysis of variance to the space of fuzzy sets To illustrate these approaches the book presents several empirical and simulation based studies with synthetic and real data sets In closing it presents a coherent R package called FuzzySTs which covers all the previously mentioned concepts with full documentation and selected use cases Given its scope the book will be of interest to all researchers whose work involves advanced fuzzy statistical methods **Soft Computing as Transdisciplinary Science and Technology** Ajith Abraham, Yasuhiko

Dote, Takeshi Furuhashi, Mario K ppen, Azuma Ohuchi, Yukio Ohsawa, 2007-12-14 This book presents the proceedings of the Fourth International Workshop on Soft Computing as Transdisciplinary Science and Technology WSTST 05 May 25 27 2005 Muroran Japan It brings together the original work of international soft computing computational intelligence researchers developers practitioners and users This proceedings provide contributions to all areas of soft computing including intelligent hybrid systems agent based systems intelligent data mining decision support systems cognitive and reactive distributed artificial intelligence AI internet modelling human interface and applications in science and technology *Computational*

and Ambient Intelligence Francisco Sandoval, Alberto Prieto, Joan Cabestany, Manuel Gra a, 2007-09-21 This book constitutes the refereed proceedings of the 9th International Work Conference on Artificial Neural Networks IWANN 2007 held in San Sebasti n Spain in June 2007 Coverage includes theoretical concepts and neurocomputational formulations evolutionary and genetic algorithms data analysis signal processing robotics and planning motor control as well as neural networks and other machine learning methods in cancer research **Flood Risk Science and Management** Gareth Pender, Hazel

Faulkner, 2010-12-01 Approaches to avoid loss of life and limit disruption and damage from flooding have changed significantly in recent years Worldwide there has been a move from a strategy of flood defence to one of flood risk management Flood risk management includes flood prevention using hard defences where appropriate but also requires that

society learns to live with floods and that stakeholders living in flood prone areas develop coping strategies to increase their resilience to flood impacts when these occur This change in approach represents a paradigm shift which stems from the realisation that continuing to strengthen and extend conventional flood defences is unsustainable economically environmentally and in terms of social equity Flood risk management recognises that a sustainable approach must rest on integrated measures that reduce not only the probability of flooding but also the consequences This is essential as increases in the probability of inundation are inevitable in many areas of the world due to climate change while socio economic development will lead to spiralling increases in the consequences of flooding unless land use in floodplains is carefully planned Flood Risk Science and Management provides an extensive and comprehensive synthesis of current research in flood management providing a multi disciplinary reference text covering a wide range of flood management topics Its targeted readership is the international research community from research students through to senior staff and flood management professionals such as engineers planners government officials and those with flood management responsibility in the public sector By using the concept of case study chapters international coverage is given to the topic ensuring a world wide relevance

Computational Intelligence, Theory and Applications Bernd Reusch, 2006-09-09 This book constitutes the refereed proceedings of the 9th Dortmund Fuzzy Days Dortmund Germany 2006 This conference has established itself as an international forum for the discussion of new results in the field of Computational Intelligence The papers presented here all thoroughly reviewed are devoted to foundational and practical issues in fuzzy systems neural networks evolutionary algorithms and machine learning and thus cover the whole range of computational intelligence

Soft Computing in Industrial Applications Ashraf Saad, Erel Avineri, Keshav Dahal, Muhammad Sarfraz, Rajkumar Roy, 2007-05-11 Here is a collection of papers presented at the 11th On line World Conference on Soft Computing in Industrial Applications held in September October 2006 This carefully edited book provides a comprehensive overview of recent advances in the industrial applications of soft computing and covers a wide range of application areas including data analysis and data mining computer graphics intelligent control systems pattern recognition classifiers as well as modeling optimization

Fuzzy Statistical Decision-Making Cengiz Kahraman, Özgür Kabak, 2016-07-15 This book offers a comprehensive reference guide to fuzzy statistics and fuzzy decision making techniques It provides readers with all the necessary tools for making statistical inference in the case of incomplete information or insufficient data where classical statistics cannot be applied The respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts including fuzzy probability distributions fuzzy frequency distributions fuzzy Bayesian inference fuzzy mean mode and median fuzzy dispersion fuzzy p value and many others To foster a better understanding all the chapters include relevant numerical examples or case studies Taken together they form an excellent reference guide for researchers lecturers and postgraduate students pursuing research on fuzzy statistics Moreover by extending all the main aspects of classical statistical decision

making to its fuzzy counterpart the book presents a dynamic snapshot of the field that is expected to stimulate new directions ideas and developments

Computing Statistics under Interval and Fuzzy Uncertainty Hung T. Nguyen,Vladik Kreinovich,Berlin Wu,Gang Xiang,2011-11-03 In many practical situations we are interested in statistics characterizing a population of objects e g in the mean height of people from a certain area Most algorithms for estimating such statistics assume that the sample values are exact In practice sample values come from measurements and measurements are never absolutely accurate Sometimes we know the exact probability distribution of the measurement inaccuracy but often we only know the upper bound on this inaccuracy In this case we have interval uncertainty e g if the measured value is 1 0 and inaccuracy is bounded by 0 1 then the actual unknown value of the quantity can be anywhere between 1 0 0 1 0 9 and 1 0 0 1 1 1 In other cases the values are expert estimates and we only have fuzzy information about the estimation inaccuracy This book shows how to compute statistics under such interval and fuzzy uncertainty The resulting methods are applied to computer science optimal scheduling of different processors to information technology maintaining privacy to computer engineering design of computer chips and to data processing in geosciences radar imaging and structural mechanics

Scalable Uncertainty Management Eyke Hüllermeier,Sebastian Link,Thomas Fober,Bernhard Seeger,2012-09-11 This book constitutes the refereed proceedings of the 6th International Conference on Scalable Uncertainty Management SUM 2012 held in Marburg Germany in September 2012 The 41 revised full papers and 13 revised short papers were carefully reviewed and selected from 75 submissions The papers cover topics in all areas of managing and reasoning with substantial and complex kinds of uncertain incomplete or inconsistent information including applications in decision support systems machine learning negotiation technologies semantic web applications search engines ontology systems information retrieval natural language processing information extraction image recognition vision systems data and text mining and the consideration of issues such as provenance trust heterogeneity and complexity of data and knowledge

Managing Information and Statistics Roland Bee,Frances Bee,1999 Managing Information and Statistics examines one of the most challenging activities in organisations today that of information management and its use for decision making

Intelligent and Fuzzy Techniques: Smart and Innovative Solutions Cengiz Kahraman,Sezi Cevik Onar,Basar Oztaysi,Irem Ucal Sari,Selcuk Cebi,A. Cagri Tolga,2020-07-10 This book gathers the most recent developments in fuzzy machine learning risk assessment heuristics and clustering the book is a valuable resource for academics M Sc and Ph D students as well as managers and engineers in industry and the service sectors

Computer Recognition Systems 2 Marek Kurzynski,Edward Puchala,Michal Wozniak,Andrzej Zolnierrek,2007-10-18 This book presents the results of the 5th International Conference on Computer Recognition Systems CORES 07 held 22 25 October 2007 in Hotel Tumski Wroclaw Poland It brings together original research results in both methodological issues and different application areas of pattern recognition The contributions cover all topics in pattern recognition including for example classification and interpretation of

text video and voice **Uncertainty Modeling for Data Mining** Zengchang Qin,Yongchuan Tang,2014-10-30 Machine learning and data mining are inseparably connected with uncertainty The observable data for learning is usually imprecise incomplete or noisy Uncertainty Modeling for Data Mining A Label Semantics Approach introduces label semantics a fuzzy logic based theory for modeling uncertainty Several new data mining algorithms based on label semantics are proposed and tested on real world datasets A prototype interpretation of label semantics and new prototype based data mining algorithms are also discussed This book offers a valuable resource for postgraduates researchers and other professionals in the fields of data mining fuzzy computing and uncertainty reasoning Zengchang Qin is an associate professor at the School of Automation Science and Electrical Engineering Beihang University China Yongchuan Tang is an associate professor at the College of Computer Science Zhejiang University China *Biological and Medical Data Analysis* José Luis Oliveira,Víctor Maojo,Fernando Martin-Sanchez,António Sousa Pereira,2005-10-24 **Practical Goal Programming** Dylan Jones,Mehrdad Tamiz,2010-03-10 Practical Goal Programming is intended to allow academics and practitioners to be able to build effective goal programming models to detail the current state of the art and to lay the foundation for its future development and continued application to new and varied fields Suitable as both a text and reference its nine chapters first provide a brief history fundamental definitions and underlying philosophies and then detail the goal programming variants and define them algebraically Chapter 3 details the step by step formulation of the basic goal programming model and Chapter 4 explores more advanced modeling issues and highlights some recently proposed extensions Chapter 5 then details the solution methodologies of goal programming concentrating on computerized solution by the Excel Solver and LINGO packages for each of the three main variants and includes a discussion of the viability of the use of specialized goal programming packages Chapter 6 discusses the linkages between Pareto Efficiency and goal programming Chapters 3 to 6 are supported by a set of ten exercises and an Excel spreadsheet giving the basic solution of each example is available at an accompanying website Chapter 7 details the current state of the art in terms of the integration of goal programming with other techniques and the text concludes with two case studies which were chosen to demonstrate the application of goal programming in practice and to illustrate the principles developed in Chapters 1 to 7 Chapter 8 details an application in healthcare and Chapter 9 describes applications in portfolio selection

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