

Przemysław Grzegorzewski  
Olgierd Hryniewicz et. al. *Editors*

# Soft Methods in Probability, Statistics and Data Analysis

# Soft Methods In Probability Statistics And Data Analysis

**Christian Drosten**



## **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 González Rodríguez, Wolfgang Trutschnig, María Asunción Lubiano, María Angeles Gil, Przemyslaw Grzegorzewski, Olgierd Hryniewicz, 2010-10-12 Over the last forty years there has been a growing interest to extend probability theory and statistics and to allow for more flexible modelling of imprecision uncertainty vagueness and ignorance The fact that in many real life situations data uncertainty is not only present in the form of randomness stochastic uncertainty but also in the form of imprecision fuzziness is but one point underlining the need for a widening of statistical tools Most such extensions originate in a softening of classical methods allowing in particular to work with imprecise or vague data considering imprecise or generalized probabilities and fuzzy events etc About ten years ago the idea of establishing a recurrent forum for discussing new trends in the before mentioned context was born and resulted in the first International Conference on Soft Methods in Probability and Statistics SMPS that was held in Warsaw in 2002 In the following years the conference took place in Oviedo 2004 in Bristol 2006 and in Toulouse 2008 In the current edition the conference returns to Oviedo This edited volume is a collection of papers presented at the SMPS 2010 conference held in Mieres and Oviedo It gives a comprehensive overview of current research into the fusion of soft methods with probability and statistics **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 **Soft Computing Methods in Human Sciences** Vesa A Niskanen, 2013-06-05 This book considers Soft Computing methods and their applications in the human sciences Soft Computing methods including fuzzy systems neural networks evolutionary computing and probabilistic reasoning are state of the art methods in theory formation and model construction

They mainly stem from the natural sciences and they have already proved to be powerful in their applications because Soft Computing models particularly fuzzy system models are simple and correspond well to the actual world and to human reasoning Hence we no longer have to use the complicated mathematical models that have prevailed in this research area Dozens of books and thousands of articles have been devoted to applications of Soft Computing in the natural sciences but only a few studies have focused on its applications in the human sciences such as the social and the behavioral sciences this despite the fact that these novel methods seem to open a number of inspiring prospects in these disciplines In quantitative research in the human sciences typical application areas include statistical models that can be replaced by simpler numerical or linguistic Soft Computing models In qualitative research Soft Computing methods can enhance modelling because instead of having to do manual work we can use computer simulations with approximate and or linguistic constituents

*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

*Computational Intelligence for Knowledge-Based System Design* Eyke Hüllermeier, Rudolf Kruse, Frank Hoffmann, 2010-06-17 The book constitutes the refereed proceedings of the 13th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2010 held in Dortmund Germany from June 28 July 2 2010 The 77 revised full papers were carefully reviewed and selected from 320 submissions and reflect the richness of research in the field of Computational Intelligence and represent developments on topics as machine learning data mining pattern recognition uncertainty handling aggregation and fusion of information as well as logic and knowledge processing

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 Data Science** Maria Brigida Ferraro, Paolo Giordani, Barbara Vantaggi, Marek Gagolewski, María Ángeles Gil, Przemysław Grzegorzewski, Olgierd Hryniewicz, 2016-08-30. This proceedings volume is a collection of peer-reviewed papers presented at the 8th International Conference on Soft Methods in Probability and Statistics (SMPS 2016) held in Rome, Italy. The book is dedicated to Data Science, which aims at developing automated methods to analyze massive amounts of data and to extract knowledge from them. It shows how Data Science employs various programming techniques and methods of data wrangling, data visualization, machine learning, probability, and statistics. The soft methods proposed in this volume represent a collection of tools in these fields that can also be useful for data science.

**Computational Intelligence in Reliability Engineering** Gregory Levitin, 2006-10-25. This volume includes chapters presenting applications of different metaheuristics in reliability engineering, including ant colony optimization, great deluge algorithm, cross entropy method, and particle swarm optimization. It also presents chapters devoted to cellular automata and support vector machines, and applications of artificial neural networks, a powerful adaptive technique that can be used for learning, prediction, and optimization. Several chapters describe aspects of imprecise reliability and applications of fuzzy and vague set theory.

**Synergies of Soft Computing and Statistics for Intelligent Data Analysis** Rudolf Kruse, Michael R. Berthold, Christian Moewes, María Ángeles Gil, Przemysław Grzegorzewski, Olgierd Hryniewicz, 2012-09-14. In recent years, there has been a growing interest to extend classical methods for data analysis. The aim is to allow a more flexible modeling of phenomena such as uncertainty, imprecision, or ignorance. Such extensions of classical probability theory and statistics are useful in many real-life situations since uncertainties in data are not only present in the form of randomness; various types of incomplete or subjective information have to be handled. About twelve years ago, the idea of strengthening the dialogue between the various research communities in the field of data analysis was born and resulted in the International Conference Series on Soft Methods in Probability and Statistics (SMPS). This book gathers contributions presented at the SMPS 2012 held in Konstanz, Germany. 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

**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.

**Granular, Fuzzy, and Soft Computing** Tsau-Young Lin, Churn-Jung Liau, Janusz Kacprzyk, 2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science (ECSS) 2009 presented a comprehensive overview of granular computing (GrC) broadly divided into several categories: Granular Computing from Rough Set Theory, Granular Computing in Database Theory, Granular Computing in Social Networks, Granular Computing and Fuzzy Set Theory, Grid/Cloud Computing, as well as general issues in granular computing. In 2011 the formal theory of GrC was established, providing an adequate infrastructure to support revolutionary new approaches to computer data science, including the challenges presented by so-called big data. For this volume of ECSS Second Edition, many entries have been updated to capture these new developments, together with new chapters on such topics as data clustering, outliers in data mining, qualitative fuzzy sets, and information flow analysis for security applications. Granulations can be seen as a natural and ancient methodology deeply rooted in the human mind. Many daily things are routinely granulated into sub-things. The topography of earth is granulated into hills, plateaus, etc. Space and time are granulated into infinitesimal granules, and a circle is granulated into polygons of infinitesimal sides. Such granules led to the invention of calculus, topology, and non-standard analysis. Formalization of general granulation was difficult, but as shown in this volume, great progress has been made in combining discrete and continuous mathematics under one roof for a broad range of applications in data science.

*Kybernetika*, 2005 **Mathematical Reviews**, 2004 *Symbolic and Quantitative Approaches to Reasoning and Uncertainty*, 2005 **Fundamenta Informaticae** Polskie Towarzystwo Matematyczne, 2004 *Soft Methods for Integrated Uncertainty Modelling* Jonathan Lawry, Enrique Miranda, Alberto Bugarin, Shoumei Li, Maria Angeles Gil, Przemyslaw Grzegorzewski, Olgierd Hryniewicz, 2006-08-14 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. **Subject Guide to Books in Print**, 1996. Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen, 2002.

*Towards Advanced Data Analysis by Combining Soft Computing and Statistics* Christian Borgelt, María Ángeles Gil, João M.C. Sousa, Michel Verleysen, 2012-08-29. Soft computing as an engineering science and statistics as a classical branch of mathematics emphasize different aspects of data analysis. Soft computing focuses on obtaining working solutions quickly, accepting approximations and unconventional approaches. Its strength lies in its flexibility to create models that suit the needs arising in applications. In addition, it emphasizes the need for intuitive and interpretable models which are tolerant to imprecision and uncertainty. Statistics is more rigorous and focuses on establishing objective conclusions based on experimental data by analyzing the possible situations and their relative likelihood. It emphasizes the need for mathematical methods and tools to assess solutions and guarantee performance. Combining the two fields enhances the robustness and generalizability of data analysis methods while preserving the flexibility to solve real world problems efficiently and intuitively.

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