

STUDIES IN FUZZINESS  
AND SOFT COMPUTING

# Foundations in Fuzziness and Soft Computing

James J. Buckley

## Fuzzy Statistics



Springer

# Fuzzy Statistics

**Rédina Berkachy**



## **Fuzzy Statistics:**

**Fundamentals of Statistics with Fuzzy Data** Hung T. Nguyen, Berlin Wu, 2006-03-20 This book presents basic aspects for a theory of statistics with fuzzy data together with a set of practical applications Theories of fuzzy logic and of random closed sets are used as basic ingredients in building statistical concepts and procedures in the context of imprecise data including coarse data analysis The book aims at motivating statisticians to examine fuzzy statistics to enlarge the domain of applicability of statistics in general Fuzzy Statistics James J. Buckley, 2013-11-11 1 1 Introduction This book is written in four major divisions The first part is the introductory chapters consisting of Chapters 1 and 2 In part two Chapters 3 11 we develop fuzzy estimation For example in Chapter 3 we construct a fuzzy estimator for the mean of a normal distribution assuming the variance is known More details on fuzzy estimation are in Chapter 3 and then after Chapter 3 Chapters 4 11 can be read independently Part three Chapters 12 20 are on fuzzy hypothesis testing For example in Chapter 12 we consider the test  $H_0: \mu = \mu_0$  versus  $H_1: \mu \neq \mu_0$  where  $\mu$  is the mean of a normal distribution with known variance but we use a fuzzy number from Chapter 3 estimator of  $\mu$  in the test statistic More details on fuzzy hypothesis testing are in Chapter 12 and then after Chapter 12 Chapters 13 20 may be read independently Part four Chapters 21 27 are on fuzzy regression and fuzzy prediction We start with fuzzy correlation in Chapter 21 Simple linear regression is the topic in Chapters 22 24 and Chapters 25 27 concentrate on multiple linear regression Part two fuzzy estimation is used in Chapters 22 and 25 and part 3 fuzzy hypothesis testing is employed in Chapters 24 and 27 Fuzzy prediction is contained in Chapters 23 and 26 A most important part of our models in fuzzy statistics is that we always start with a random sample producing crisp non fuzzy data

**Statistical Methods for Fuzzy Data** Reinhard Viertl, 2011-01-25 Statistical data are not always precise numbers or vectors or categories Real data are frequently what is called fuzzy Examples where this fuzziness is obvious are quality of life data environmental biological medical sociological and economics data Also the results of measurements can be best described by using fuzzy numbers and fuzzy vectors respectively Statistical analysis methods have to be adapted for the analysis of fuzzy data In this book the foundations of the description of fuzzy data are explained including methods on how to obtain the characterizing function of fuzzy measurement results Furthermore statistical methods are then generalized to the analysis of fuzzy data and fuzzy a priori information Key Features Provides basic methods for the mathematical description of fuzzy data as well as statistical methods that can be used to analyze fuzzy data Describes methods of increasing importance with applications in areas such as environmental statistics and social science Complements the theory with exercises and solutions and is illustrated throughout with diagrams and examples Explores areas such quantitative description of data uncertainty and mathematical description of fuzzy data This work is aimed at statisticians working with fuzzy logic engineering statisticians finance researchers and environmental statisticians It is written for readers who are familiar with elementary stochastic models and basic statistical methods **Fuzzy Statistical Inferences Based on Fuzzy Random**

**Variables** Gholamreza Hesamian,2022-02-24 This book presents the most commonly used techniques for the most statistical inferences based on fuzzy data It brings together many of the main ideas used in statistical inferences in one place based on fuzzy information including fuzzy data This book covers a much wider range of topics than a typical introductory text on fuzzy statistics It includes common topics like elementary probability descriptive statistics hypothesis tests one way ANOVA control charts reliability systems and regression models The reader is assumed to know calculus and a little fuzzy set theory The conventional knowledge of probability and statistics is required Key Features Includes example in Mathematica and MATLAB Contains theoretical and applied exercises for each section Presents various popular methods for analyzing fuzzy data The book is suitable for students and researchers in statistics social science engineering and economics and it can be used at graduate and P h D level

Fuzzy Probability and Statistics James J. Buckley,2006-02-21 This book combines material from our previous books FP Fuzzy Probabilities New Approach and Applications Physica Verlag 2003 and FS Fuzzy Statistics Springer 2004 plus has about one third new results From FP we have material on basic fuzzy probability discrete fuzzy Poisson binomial and continuous uniform normal exponential fuzzy random variables From FS we included chapters on fuzzy estimation and fuzzy hypothesis testing related to means variances proportions correlation and regression New material includes fuzzy estimators for arrival and service rates and the uniform distribution with applications in fuzzy queuing theory Also new to this book is three chapters on fuzzy maximum entropy imprecise side conditions estimators producing fuzzy distributions and crisp discrete continuous distributions Other new results are 1 two chapters on fuzzy ANOVA one way and two way 2 random fuzzy numbers with applications to fuzzy Monte Carlo studies and 3 a fuzzy nonparametric estimator for the median

The Signed Distance Measure in Fuzzy Statistical Analysis Rédina 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

**Statistics Applied to Clinical Studies** Ton J. Cleophas,Aeilko H. Zwinderman,2012-02-07 Thanks to the omnipresent computer current statistics can include data files of many thousands of values and can perform any exploratory analysis in less than seconds This

development however fascinating generally does not lead to simple results We should not forget that clinical studies are mostly for confirming prior hypotheses based on sound arguments and the simplest tests provide the best power and are adequate for such studies In the past few years the authors of this 5th edition as teachers and research supervisors in academic and top clinical facilities have been able to closely observe the latest developments in the field of clinical data analysis and they have been able to assess their performance In this 5th edition the 47 chapters of the previous edition have been maintained and upgraded according to the current state of the art and 20 novel chapters have been added after strict selection of the most valuable and promising novel methods The novel methods are explained using practical examples and step by step analyses readily accessible for non mathematicians All of the novel chapters have been internationally published by the authors in peer reviewed journal including the American Journal of Therapeutics the European Journal of Clinical Investigation The International journal of Clinical Pharmacology and therapeutics and other journals and permission is granted by all of them to use this material in the current book We should add that the authors are well qualified in their fields of knowledge Professor Zwinderman is president elect of the International Society of Biostatistics and Professor Cleophas is past president of the American College of Angiology From their expertise they should be able to make adequate selections of modern methods for clinical data analysis for the benefit of physicians students and investigators The authors although from a different discipline one clinician and one statistician have been working and publishing together for over 10 years and their research of statistical methodology can be characterized as a continued effort to demonstrate that statistics is not mathematics but rather a discipline at the interface of biology and mathematics They firmly believe that any reader can benefit from this clinical approach to statistical data analysis

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

**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

*Fuzzy Statistical Inferences Based on Fuzzy Random Variables* Gholamreza Hesamian, 2022-02-24 This book presents the most commonly used techniques for the most statistical inferences based on fuzzy data It brings together many of the main ideas used in statistical inferences in one place based on fuzzy information including fuzzy data This book covers a much wider range of topics than a typical introductory text on fuzzy statistics It includes common topics like elementary probability descriptive statistics hypothesis tests one way ANOVA control charts reliability systems and regression models The reader is assumed to know calculus and a little fuzzy set theory The conventional knowledge of probability and statistics is required Key Features Includes example in Mathematica and MATLAB Contains theoretical and applied exercises for each section Presents various popular methods for analyzing fuzzy data The book is suitable for students and researchers in statistics social science engineering and economics and it can be used at graduate and P h D level

**Stochastic Models, Statistics and Their Applications** Ansgar Steland, Ewaryst Rafajłowicz, Ostap Okhrin, 2019-10-15 This volume presents selected and peer reviewed contributions from the 14th Workshop on Stochastic Models Statistics and Their Applications held in Dresden Germany on March 6 8 2019 Addressing the needs of theoretical and applied researchers alike the contributions provide an overview of the latest advances and trends in the areas of mathematical statistics and applied probability and their applications to high dimensional statistics econometrics and time series analysis statistics for stochastic processes statistical machine learning big data and data science random matrix theory quality control change point analysis and detection finance copulas survival analysis and reliability sequential experiments empirical processes and microsimulations As the book demonstrates stochastic models and related statistical procedures and algorithms are essential to more comprehensively understanding and solving present day problems arising in e g the natural sciences machine learning data science engineering image analysis genetics econometrics and finance

*Asymptotics in Statistics and Probability* Madan L. Puri, 2000-01-01 **Cognitive Intelligence with Neutrosophic Statistics in Bioinformatics** Florentin Smarandache, Muhammad Aslam, 2023-02-11 Cognitive Intelligence with Neutrosophic Statistics in Bioinformatics investigates and presents the many applications that have arisen in the last ten years using neutrosophic statistics in bioinformatics medicine agriculture and cognitive science This book will be very useful to the scientific community appealing to audiences interested in fuzzy vague concepts from which uncertain data are collected including academic researchers practicing engineers and graduate students Neutrosophic statistics is a

generalization of classical statistics In classical statistics the data is known formed by crisp numbers In comparison data in neutrosophic statistics has some indeterminacy This data may be ambiguous vague imprecise incomplete and even unknown Neutrosophic statistics refers to a set of data such that the data or a part of it are indeterminate in some degree and to methods used to analyze the data Introduces the field of neutrosophic statistics and how it can solve problems working with indeterminate imprecise ambiguous vague incomplete unknown data Presents various applications of neutrosophic statistics in the fields of bioinformatics medicine cognitive science and agriculture Provides practical examples and definitions of neutrosophic statistics in relation to the various types of indeterminacies

**Trends in Mathematical, Information and Data Sciences** Narayanaswamy Balakrishnan, María Ángeles Gil, Nirian Martín, Domingo Morales, María del Carmen Pardo, 2022-06-27 This book involves ideas results from the topics of mathematical information and data sciences in connection with the main research interests of Professor Pardo that can be summarized as Information Theory with Applications to Statistical Inference This book is a tribute to Professor Leandro Pardo who has chaired the Department of Statistics and OR of the Complutense University in Madrid and he has been also President of the Spanish Society of Statistics and Operations Research In this way the contributions have been structured into three parts which often overlap to a greater or lesser extent namely Trends in Mathematical Sciences Part I Trends in Information Sciences Part II Trends in Data Sciences Part III The contributions gathered in this book have offered either new developments from a theoretical and or computational and or applied point of view or reviews of recent literature of outstanding developments They have been applied through nice examples in climatology chemistry economics engineering geology health sciences physics pandemics and socioeconomic indicators Consequently the intended audience of this book is mainly statisticians mathematicians computer scientists and so on but users of these disciplines as well as experts in the involved applications may certainly find this book a very interesting read

**Uncertainty Modelling in Data Science** Sébastien Destercke, Thierry Denoeux, María Ángeles Gil, Przemyslaw Grzegorzewski, Olgierd Hryniewicz, 2018-07-24 This book features 29 peer reviewed papers presented at the 9th International Conference on Soft Methods in Probability and Statistics SMPS 2018 which was held in conjunction with the 5th International Conference on Belief Functions BELIEF 2018 in Compiegne France on September 17 21 2018 It includes foundational methodological and applied contributions on topics as varied as imprecise data handling linguistic summaries model coherence imprecise Markov chains and robust optimisation These proceedings were produced using EasyChair Over recent decades interest in extensions and alternatives to probability and statistics has increased significantly in diverse areas including decision making data mining and machine learning and optimisation This interest stems from the need to enrich existing models in order to include different facets of uncertainty like ignorance vagueness randomness conflict or imprecision Frameworks such as rough sets fuzzy sets fuzzy random variables random sets belief functions possibility theory imprecise probabilities lower previsions and desirable gambles all share this goal but have

emerged from different needs The advances results and tools presented in this book are important in the ubiquitous and fast growing fields of data science machine learning and artificial intelligence Indeed an important aspect of some of the learned predictive models is the trust placed in them Modelling the uncertainty associated with the data and the models carefully and with principled methods is one of the means of increasing this trust as the model will then be able to distinguish between reliable and less reliable predictions In addition extensions such as fuzzy sets can be explicitly designed to provide interpretable predictive models facilitating user interaction and increasing trust **Triangular Single Valued**

**Neutrosophic Data Envelopment Analysis: Application to Hospital Performance Measurement** Wei Yang , Lulu Cai ,Seyed Ahmad Edalatpanah,Florentin Smarandache, The foremost broadly utilized strategy for the valuation of the overall performance of a set of identical decision making units DMUs that use analogous sources to yield related outputs is dataThe foremost broadly utilized strategy for the valuation of the overall performance of a set of identical decision making units DMUs that use analogous sources to yield related outputs is data envelopment analysis DEA However the witnessed values of the symmetry or asymmetry of di erent types of information in real world applications are sometimes inaccurate ambiguous inadequate and inconsistent so overlooking these conditions may lead to erroneous decision making envelopment analysis DEA However the witnessed values of the symmetry or asymmetry of di erent types of information in real world applications are sometimes inaccurate ambiguous inadequate and inconsistent so overlooking these conditions may lead to erroneous decision making **New Advances in Intelligent Signal Processing** Antonio Ruano,Annamária R.

Várkonyi-Kóczy,2011-09-07 The current volume New Advances in Intelligent Signal Processing contains extended works based on a careful selection of papers presented originally at the jubilee sixth IEEE International Symposium on Intelligent Signal Processing WISP 2009 held in Budapest Hungary August 26 28 2009 celebrating the 10 years anniversary of the WISP event series The present book does not intent to be an overall survey on the fields of interest of the area but tries to find topics which represent new hot and challenging problems The book begins with papers investigating selected problems of Modeling Identification and Clustering such as fuzzy random variables evolutionary multi objective neural network models a structural learning model of neural networks within a Boltzmann machine a robust DNA based clustering techniques and the advances of combining multi criteria analysis of signals and pattern recognition using machine learning principles In the second part of the book Image Processing is treated The carefully edited chapters deal with fuzzy relation based image enhancement image contrast control technique based on the application of ukasiewicz algebra operators low complexity situational models of image quality improvement flexible representation of map images to quantum computers and object recognition in images The last chapter presents an image processing application for elderly care performing real time 3D tracking based on a new evaluative multi modal algorithm Computational Science — ICCS 2003 Peter M.A. Sloot,David Abramson,Alexander V. Bogdanov,Jack J. Dongarra,Albert Y. Zomaya,Yuriy E. Gorbachev,2003-08-03 The four volume set



LNCS 2657 LNCS 2658 LNCS 2659 and LNCS 2660 constitutes the refereed proceedings of the Third International Conference on Computational Science ICCS 2003 held concurrently in Melbourne Australia and in St Petersburg Russia in June 2003 The four volumes present more than 460 reviewed contributed and invited papers and span the whole range of computational science from foundational issues in computer science and algorithmic mathematics to advanced applications in virtually all application fields making use of computational techniques These proceedings give a unique account of recent results in the field

**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

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Hotine-Marussi Symposium on Mathematical Geodesy Fernando Sansò, 2004-06-14 This book presents those in geodesy and related sciences including applied mathematics many new results of high intellectual value that keep them on top of the latest happenings in the field

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