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SERIES B: MATHEMATICAL AND STATISTICAL METHODS

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LIMIT THEOREMS AND  
APPLICATIONS OF  
SET-VALUED AND FUZZY  
SET-VALUED RANDOM  
VARIABLES

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# Limit Theorems And Applications Of Setvalued And Fuzzy

**Didier Dubois, Maria Asuncion  
Lubiano, Henri Prade, María Angeles  
Gil, Przemysław Grzegorzewski, Olgierd  
Hryniewicz**

## **Limit Theorems And Applications Of Setvalued And Fuzzy:**

**Limit Theorems and Applications of Set-Valued and Fuzzy Set-Valued Random Variables** Shoumei Li,Y. Ogura,V. Kreinovich,2013-04-17 After the pioneering works by Robbins 1944 1945 and Choquet 1955 the notation of a set valued random variable called a random closed set in literatures was systematically introduced by Kendall 1974 and Matheron 1975 It is well known that the theory of set valued random variables is a natural extension of that of general real valued random variables or random vectors However owing to the topological structure of the space of closed sets and special features of set theoretic operations of Beer 27 set valued random variables have many special properties This gives new meanings for the classical probability theory As a result of the development in this area in the past more than 30 years the theory of set valued random variables with many applications has become one of new and active branches in probability theory In practice also we are often faced with random experiments whose outcomes are not numbers but are expressed in inexact linguistic terms

Limit Theorems and Applications of Set-Valued and Fuzzy Set-Valued Random Variables Shoumei Li,Y. Ogura,V. Kreinovich,2014-01-15 Fuzzy Sets Theory and Applications André Jones,Arnold Kaufmann,Hans-Jürgen Zimmermann,2012-12-06 Problems in decision making and in other areas such as pattern recognition control structural engineering etc involve numerous aspects of uncertainty Additional vagueness is introduced as models become more complex but not necessarily more meaningful by the added details During the last two decades one has become more and more aware of the fact that not all this uncertainty is of stochastic random character and that therefore it can not be modelled appropriately by probability theory This becomes the more obvious the more we want to represent formally human knowledge As far as uncertain data are concerned we have neither instruments nor reasoning at our disposal as well defined and unquestionable as those used in the probability theory This almost infallible domain is the result of a tremendous work by the whole scientific world But when measures are dubious bad or no longer possible and when we really have to make use of the richness of human reasoning in its variety then the theories dealing with the treatment of uncertainty some quite new and other ones older provide the required complement and fill in the gap left in the field of knowledge representation Nowadays various theories are widely used fuzzy sets belief function the convenient associations between probability and fuzziness etc We are more and more in need of a wide range of instruments and theories to build models that are more and more adapted to the most complex systems *Nonlinear Mathematics for Uncertainty and its Applications* Shoumei Li,Xia Wang,Yoshiaki Okazaki,Jun Kawabe,Toshiaki Murofushi,Li Guan,2011-07-21 This volume is a collection of papers presented at the international conference on Nonlinear Mathematics for Uncertainty and Its Applications NLMUA2011 held at Beijing University of Technology during the week of September 7 9 2011 The conference brought together leading researchers and practitioners involved with all aspects of nonlinear mathematics for uncertainty and its applications Over the last fifty years there have been many attempts in extending the theory of classical probability and statistical models to the generalized one

which can cope with problems of inference and decision making when the model related information is scarce vague ambiguous or incomplete Such attempts include the study of nonadditive measures and their integrals imprecise probabilities and random sets and their applications in information sciences economics finance insurance engineering and social sciences The book presents topics including nonadditive measures and nonlinear integrals Choquet Sugeno and other types of integrals possibility theory Dempster Shafer theory random sets fuzzy random sets and related statistics set valued and fuzzy stochastic processes imprecise probability theory and related statistical models fuzzy mathematics nonlinear functional analysis information theory mathematical finance and risk managements decision making under various types of uncertainty and others

**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

**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

Integrated Uncertainty Management and Applications Van-Nam Huynh, Yoshiteru Nakamori, Jonathan Lawry, Masahiro Inuiguchi, 2010-03-26 Solving practical problems often requires the integration of information and knowledge from many different sources taking into account uncertainty and impreciseness The 2010 International Symposium on Integrated Uncertainty Management and Applications IUM 2010 which takes place at the Japan Advanced Institute of Science and Technology JAIST Ishikawa Japan between 9th 11th April is therefore conceived as a forum for the discussion and exchange of research results ideas for and experience of application among researchers and practitioners involved with all aspects of uncertainty modelling and management

Mathematical Theory of Fuzzy Sets Hsien-Chung Wu, 2024-12-13 Mathematical Theory of Fuzzy Sets presents the mathematical theory of non normal fuzzy sets such that it can be rigorously used as a basic tool to study engineering and economic problems under a fuzzy environment It may also be used as a textbook at the graduate level or as a reference for researchers The book explores the current state of affairs in set operations of fuzzy sets arithmetic operations of fuzzy interval and fuzzification of crisp functions which are frequently adopted to model engineering and economic problems with fuzzy uncertainty In particular the concepts of gradual sets and gradual elements are presented in order to cope with the difficulty of considering elements of fuzzy sets like considering elements of crisp sets Features Many extensions and equivalences for the essence of non normal fuzzy sets Generalization of extension principle Presentation of the concepts of gradual sets and gradual elements

From Intervals to -? Vladik Kreinovich, Graçaliz Pereira Dimuro, Antônio Carlos da Rocha Costa, 2022-11-28 This book is about methodological aspects of uncertainty propagation in data processing Uncertainty propagation is an important problem while computer algorithms efficiently process data related to many aspects of their lives most of these algorithms implicitly assume that the numbers they process are exact In reality these numbers come from measurements and measurements are never 100% exact Because of this it makes no sense to translate 61 kg into pounds and get the result as computers do with 13 digit accuracy In many cases e g in celestial mechanics the state of a system can be described by a few numbers the values of the corresponding physical quantities In such cases for each of these quantities we know at least the upper bound on the measurement error This bound is either provided by the manufacturer of the measuring instrument or is estimated by the user who calibrates this instrument However in many other cases the description of the system is more complex than a few numbers we need a function to describe a physical field e g electromagnetic field we need a vector in Hilbert space to describe a quantum state we need a pseudo Riemannian space to describe the physical space time etc To describe and process uncertainty in all such cases this book proposes a general methodology a methodology that includes intervals as a particular case The book is

recommended to students and researchers interested in challenging aspects of uncertainty analysis and to practitioners who need to handle uncertainty in such unusual situations

*Handbook of Measure Theory* E. Pap, 2002-10-31 The main goal of this Handbook is to survey measure theory with its many different branches and its relations with other areas of mathematics. Mostly aggregating many classical branches of measure theory, the aim of the Handbook is also to cover new fields, approaches and applications which support the idea of measure in a wider sense, e.g. the ninth part of the Handbook. Although chapters are written of surveys in the various areas, they contain many special topics and challenging problems valuable for experts and rich sources of inspiration. Mathematicians from other areas as well as physicists, computer scientists, engineers and econometricists will find useful results and powerful methods for their research. The reader may find in the Handbook many close relations to other mathematical areas: real analysis, probability theory, statistics, ergodic theory, functional analysis, potential theory, topology, set theory, geometry, differential equations, optimization, variational analysis, decision making and others. The Handbook is a rich source of relevant references to articles, books and lecture notes, and it contains for the reader's convenience an extensive subject and author index.

Theory of Random Sets Ilya Molchanov, 2005-05-11 This is the first systematic exposition of random sets theory since Matheron 1975, with full proofs, exhaustive bibliographies and literature notes. Interdisciplinary connections and applications of random sets are emphasized throughout the book. An extensive bibliography in the book is available on the Web at [http://linwww.ira.uka.de/bibliography/math/random/closed\\_sets.html](http://linwww.ira.uka.de/bibliography/math/random/closed_sets.html) and is accompanied by a search engine.

*Intelligent Data Analysis: Developing New Methodologies Through Pattern Discovery and Recovery* Wang, Hsiao-Fan, 2008-07-31 Pattern Recognition has a long history of applications to data analysis in business, military and social economic activities. While the aim of pattern recognition is to discover the pattern of a data set, the size of the data set is closely related to the methodology one adopts for analysis. Intelligent Data Analysis: Developing New Methodologies Through Pattern Discovery and Recovery tackles those data sets and covers a variety of issues in relation to intelligent data analysis so that patterns from frequent or rare events in spatial or temporal spaces can be revealed. This book brings together current research results, problems and applications from both theoretical and practical approaches.

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

### **Time Series, Fuzzy Analysis and Miscellaneous**

**Topics** Madan Lal Puri, 2011-08-02 Professor Puri is one of the most versatile and prolific researchers in the world in mathematical statistics His research areas include nonparametric statistics order statistics limit theory under mixing time series splines tests of normality generalized inverses of matrices and related topics stochastic processes statistics of directional data random sets and fuzzy sets and fuzzy measures His fundamental contributions in developing new rank based methods and precise evaluation of the standard procedures asymptotic expansions of distributions of rank statistics as well as large deviation results concerning them span such areas as analysis of variance analysis of covariance multivariate analysis and time series to mention a few His in depth analysis has resulted in pioneering research contributions to prominent journals that have substantial impact on current research This book together with the other two volumes Volume 1 Nonparametric Methods in Statistics and Related Topics Volume 2 Probability Theory and Extreme Value Theory are a concerted effort to make his research works easily available to the research community The sheer volume of the research output by him and his collaborators coupled with the broad spectrum of the subject matters investigated and the great number of outlets where the papers were published attach special significance in making these works easily accessible The papers selected for inclusion in this work have been classified into three volumes each consisting of several parts All three volumes carry a final part consisting of the contents of the other two as well as the complete list of Professor Puri's publications

*Algebraic Approach to Data Processing* Julio C. Urenda, Vladik Kreinovich, 2022-10-15 The book explores a new general approach to selecting and designing data processing techniques Symmetry and invariance ideas behind this algebraic approach have been successful in physics where many new theories are formulated in symmetry terms The book explains this approach and expands it to new application areas ranging from engineering medicine education to social sciences In many cases this approach leads to optimal techniques and optimal solutions That the same data processing techniques help us better analyze wooden structures lung dysfunctions and deep learning algorithms is a good indication that these techniques can be used in many other applications as well The book is recommended to researchers and practitioners who need to select a data processing technique or who want to design a new technique when the existing techniques do not work It is also recommended to students who want to learn the state of the art data processing

### **Fuzzy Stochastic**

**Optimization** Shuming Wang, Junzo Watada, 2012-03-20 In 2014 winner of Outstanding Book Award by The Japan Society for Fuzzy Theory and Intelligent Informatics Covering in detail both theoretical and practical perspectives this book is a self contained and systematic depiction of current fuzzy stochastic optimization that deploys the fuzzy random variable as a core

mathematical tool to model the integrated fuzzy random uncertainty It proceeds in an orderly fashion from the requisite theoretical aspects of the fuzzy random variable to fuzzy stochastic optimization models and their real life case studies The volume reflects the fact that randomness and fuzziness or vagueness are two major sources of uncertainty in the real world with significant implications in a number of settings In industrial engineering management and economics the chances are high that decision makers will be confronted with information that is simultaneously probabilistically uncertain and fuzzily imprecise and optimization in the form of a decision must be made in an environment that is doubly uncertain characterized by a co occurrence of randomness and fuzziness This book begins by outlining the history and development of the fuzzy random variable before detailing numerous optimization models and applications that include the design of system controls for a dam

**How Uncertainty-Related Ideas Can Provide Theoretical Explanation For Empirical Dependencies**

Martine Ceberio,Vladik Kreinovich,2021-03-20 This book shows how to provide uncertainty related theoretical justification for empirical dependencies on the examples from numerous application areas Such justifications are needed since without them practitioners may be reluctant to use these dependencies purely empirical formulas often turn out to hold only in some cases Examples of new theoretical explanations range from fundamental physics quark confinement galaxy superclusters etc and geophysics earthquake analysis to transportation and electrical engineering to computer science image processing quantum computing and pedagogy equity effect of repetitions The book is useful to students and specialists in the corresponding areas Most of the examples use common general techniques so the book is also useful to practitioners and researchers in other application areas who look for ways to provide theoretical justifications for their areas empirical dependencies

*Madan Lal Puri Selected Collected Works* Madan Lal Puri,2003-01-01 Professor Puri is one of the most versatile and prolific researchers in the world in mathematical statistics His research areas include nonparametric statistics order statistics limit theory under mixing time series splines tests of normality generalized inverses of matrices and related topics stochastic processes statistics of directional data random sets and fuzzy sets and fuzzy measures His fundamental contributions in developing new rank based methods and precise evaluation of the standard procedures asymptotic expansions of distributions of rank statistics as well as large deviation results concerning them span such areas as analysis of variance analysis of covariance multivariate analysis and time series to mention a few His in depth analysis has resulted in pioneering research contributions to prominent journals that have substantial impact on current research This book together with the other two volumes Volume 1 Nonparametric Methods in Statistics and Related Topics Volume 2 Probability Theory and Extreme Value Theory are a concerted effort to make his research works easily available to the research community The sheer volume of the research output by him and his collaborators coupled with the broad spectrum of the subject matters investigated and the great number of outlets where the papers were published attach special significance in making these works easily accessible The papers selected for inclusion in this work have been classified into three volumes each consisting



of several parts All three volumes carry a final part consisting of the contents of the other two as well as the complete list of Professor Puri's publications

**Metric Spaces Of Fuzzy Sets: Theory And Applications** Phil Diamond, Peter Kloeden, 1994-05-28 The primary aim of the book is to provide a systematic development of the theory of metric spaces of normal upper semicontinuous fuzzy convex fuzzy sets with compact support sets mainly on the base space  $\mathbb{R}^n$  An additional aim is to sketch selected applications in which these metric space results and methods are essential for a thorough mathematical analysis This book is distinctly mathematical in its orientation and style in contrast with many of the other books now available on fuzzy sets which although all making use of mathematical formalism to some extent are essentially motivated by and oriented towards more immediate applications and related practical issues The reader is assumed to have some previous undergraduate level acquaintance with metric spaces and elementary functional analysis

**Intelligent Systems: Models and Applications** Endre Pap, 2012-10-20 The theory and applications of intelligent systems is today an important field of research This book is an up to date collection of seventeen chapters written by recognized experts in the field In an introductory mathematical foundations part an overview of generalizations of the integral inequalities for nonadditive integrals and a construction of the General Prioritized Fuzzy Satisfaction Problem is given Then different aspects of robotics are presented such as the differences between human beings and robots the motion of bipedal humanoid robots and an evaluation of different autonomous quadrotor flight controllers Also Fuzzy Systems are presented by a model of basic planar imprecise geometric objects allowing various applications in image analysis GIS and robotics as well as a type 2 fuzzy logic in a software library for developing perceptual computers and a two degree of freedom speed control solutions for a brushless Direct Current motor The book also presents recent applications in medicine such as a Virtual Doctor System methods for a face to face human machine interaction and an emotion estimation with applications for multiple diseases and the effect of the applied therapy The last part of the book covers different applications in transportation network monitoring and localization of pedestrians in images

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