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**Muhammad Aslam, Rashad A. R.
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Statistics With Vague Data:

Statistics with Vague Data Rudolf Kruse, Klaus Dieter Meyer, 2012-12-06 This monograph is an attempt to unify existing works in the field of random sets random variables and linguistic random variables with respect to statistical analysis It is intended to be a tutorial research compendium The material of the work is mainly based on the postdoctoral thesis Habilitationsschrift of the first author and on several papers recently published by both authors The methods form the basis of a user friendly software tool which supports the statistical inference in the presence of vague data Parts of the manuscript have been used in courses for graduate level students of mathematics and computer sciences held by the first author at the Technical University of Braunschweig The textbook is designed for readers with an advanced knowledge of mathematics The idea of writing this book came from Professor Dr H Skala Several of our students have significantly contributed to its preparation We would like to express our gratitude to Reinhard Elsner for his support in typesetting the book Jorg Gebhardt and Jorg Knop for preparing the drawings Michael Eike and Jiirgen Freckmann for implementing the programming system and Giinter Lehmann and Winfried Boer for proofreading the manuscript This work was partially supported by the Fraunhofer Gesellschaft We are indebted to D Reidel Publishing Company for making the publication of this book possible and would especially like to acknowledge the support which we received from our families on this project

Synergies of Soft Computing and Statistics for Intelligent Data Analysis Rudolf Kruse, Michael R. Berthold, Christian Moewes, María Ángeles Gil, Przemysław Grzegorzewski, Olgierd Hryniewicz, 2012-09-13 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

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

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

Monitoring the Process Based on Belief Statistic for Neutrosophic Gamma Distributed Product Muhammad Aslam, Rashad A. R. Bantan, Nasrullah Khan, In this paper we developed a control chart methodology for the monitoring the mean time between two events using the belief estimator under the neutrosophic gamma distribution The proposed control chart coefficients and the neutrosophic average run length NARL have been determined using different process settings The performance of the proposed chart is compared with the control chart under classical statistics in terms of NARL using the simulation data and real example From comparisons it is concluded that the proposed chart is efficient effective and adequate to be used under uncertainty environment than the chart under classical statistics

Journal of the American Statistical Association American Statistical Association, 1924 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

Cartographic Visualization of the Quality of Demographic Data Joshua Comenetz, 1999

Interfaces, 1989 Seeks to improve communication between managers and professionals in OR MS

Modelling Uncertain Data Hans Bandemer, 1992 Mathematics of Computing Miscellaneous

Advances in Intelligent Data Analysis, 1997

Possibility Theory with Applications to Data Analysis Olaf Wolkenhauer, 1998

New Approaches in

Classification and Data Analysis E. Diday, 1994-11-10 The subject of this book is the analysis and processing of structural or quantitative data with emphasis on classification methods new algorithms as well as applications in various fields related to data analysis and classification The book presents the state of the art in world wide research and application of methods from the fields indicated above and consists of survey papers as well as research papers Journal of Statistical Planning and Inference North-Holland Publishing Company, 2002 Current Index to Statistics, Applications, Methods and Theory , 1995 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Signal Processing, Sensor Fusion, and Target Recognition** , 1996 **Italian Journal of Pure and Applied Mathematics** , 2006 **The Cumulative Book Index** , 1989 A world list of books in the English language **Proceedings, the 10th International Conference on Data Engineering** IEEE Computer Society. Technical Committee on Data Engineering, 1994 The Lancet , 1880 *International Library of Technology* , 1923

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