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Random Sets

Theory and Applications

Springer

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Marko Cepin,Radim Bris

Random Sets Theory And Applications:

Random Sets J. Goutsias,1997 *Random Sets* John Goutsias,Ronald P.S. Mahler,Hung T. Nguyen,2012-12-06 This IMA Volume in Mathematics and its Applications RANDOM SETS THEORY AND APPLICATIONS is based on the proceedings of a very successful 1996 three day Summer Program on Application and Theory of Random Sets We would like to thank the scientific organizers John Goutsias Johns Hopkins University Ronald P S Mahler Lockheed Martin and Hung T Nguyen New Mexico State University for their excellent work as organizers of the meeting and for editing the proceedings We also take this opportunity to thank the Army Research Office ARO the Office ofNaval Research 0NR and the Eagan MinnesotaEngineering Center ofLockheed Martin Tactical Defense Systems whose financial support made the summer program possible Avner Friedman Robert Gulliver v PREFACE Later generations will regard set theory as a disease from which one has recovered Henri Poincare Random set theory was independently conceived by D G Kendall and G Matheron in connection with stochastic geometry It was however G *Advances In Theory And Applications Of Random Sets: Proceedings Of The Symposium* Dominique Jeulin,1997-01-16 This volume covers topics ranging from pure and applied mathematics to pedagogical issues in mathematics There are papers in mathematical biology differential equations difference equations dynamical systems orthogonal polynomials topology calculus reform algebra and numerical analysis Most of the papers include new interesting results that are at the cutting edge of the respective subjects However there are some papers of an expository nature **Theory of Random Sets** Ilya Molchanov,2005-11-28 Stochastic geometry is a relatively new branch of mathematics Although its predecessors such as geometric probability date back to the 18th century the formal concept of a random set was developed in the beginning of the 1970s Theory of Random Sets presents a state of the art treatment of the modern theory but it does not neglect to recall and build on the foundations laid by Matheron and others including the vast advances in stochastic geometry probability theory set valued analysis and statistical inference of the 1990s The book is entirely self contained systematic and exhaustive with the full proofs that are necessary to gain insight It shows the various interdisciplinary relationships of random set theory within other parts of mathematics and at the same time fixes terminology and notation that are often varying in the current literature to establish it as a natural part of modern probability theory and to provide a platform for future development *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 recogni tion 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 cha racter 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 instru ments nor reasoning at

our disposal as well defined and unquestionable as those used in the probability theory This almost infallible do main 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 fuzzines 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   *An Introduction to Random Sets* Hung T. Nguyen,2006-03-27 The study of random sets is a large and rapidly growing area with connections to many areas of mathematics and applications in widely varying disciplines from economics and decision theory to biostatistics and image analysis The drawback to such diversity is that the research reports are scattered throughout the literature with the result that i   **Random Measures, Theory and Applications** Olav Kallenberg,2017-04-12 Offering the first comprehensive treatment of the theory of random measures this book has a very broad scope ranging from basic properties of Poisson and related processes to the modern theories of convergence stationarity Palm measures conditioning and compensation The three large final chapters focus on applications within the areas of stochastic geometry excursion theory and branching processes Although this theory plays a fundamental role in most areas of modern probability much of it including the most basic material has previously been available only in scores of journal articles The book is primarily directed towards researchers and advanced graduate students in stochastic processes and related areas   Monotone Random Systems Theory and Applications Igor Chueshov,2004-10-11 The aim of this book is to present a recently developed approach suitable for investigating a variety of qualitative aspects of order preserving random dynamical systems and to give the background for further development of the theory The main objects considered are equilibria and attractors The effectiveness of this approach is demonstrated by analysing the long time behaviour of some classes of random and stochastic ordinary differential equations which arise in many applications   **Random Sets and Random Fuzzy Sets as Ill-Perceived Random Variables** Inés Couso,Didier Dubois,Luciano Sánchez,2014-07-22 This short book provides a unified view of the history and theory of random sets and fuzzy random variables with special emphasis on its use for representing higher order non statistical uncertainty about statistical experiments The authors lay bare the existence of two streams of works using the same mathematical ground but differing form their use of sets according to whether they represent objects of interest naturally taking the form of sets or imprecise knowledge about such objects Random fuzzy sets can be used in many fields ranging from mathematical morphology economics artificial intelligence information processing and statistics per se especially in areas where the outcomes of random experiments cannot be observed with full precision This book also emphasizes the link between random sets and fuzzy sets with some techniques related to the theory of imprecise

probabilities This small book is intended for graduate and doctoral students in mathematics or engineering but also provides an introduction for other researchers interested in this area It is written from a theoretical perspective However rather than offering a comprehensive formal view of random fuzzy sets in this context it aims to provide a discussion of the meaning of the proposed formal constructions based on many concrete examples and exercises This book should enable the reader to understand the usefulness of representing and reasoning with incomplete information in statistical tasks Each chapter ends with a list of exercises   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 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   **Safety and Reliability. Theory and Applications** Marko Cepin,Radim Bris,2017-06-14 Safety and Reliability Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portoro Slovenia June 18 22 2017 The book covers a wide range of topics including Accident and Incident modelling Economic Analysis in Risk Management Foundational Issues in Risk Assessment and Management Human Factors and Human Reliability Maintenance Modeling and Applications Mathematical Methods in Reliability and Safety Prognostics and System Health Management Resilience Engineering Risk Assessment Risk Management Simulation for Safety and Reliability Analysis Structural Reliability System Reliability and Uncertainty Analysis Selected special sessions include contributions on the Marie Sk odowska Curie innovative training network in structural safety risk approaches in insurance and fi nance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing oganizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio technical economic systems advanced safety assessment methodologies extended Probabilistic Safety Assessment reliability availability maintainability and safety in railways theory big data risk analysis and management and model based reliability and safety engineering Safety and Reliability Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including Aeronautics and Aerospace Automotive Engineering Civil Engineering Electrical and Electronic Engineering Energy Production and Distribution Environmental Engineering Information Technology and Telecommunications Critical Infrastructures Insurance and Finance Manufacturing Marine Industry Mechanical Engineering Natural Hazards Nuclear Engineering Offshore Oil and Gas Security and Protection

Transportation and Policy Making   Random Sets in Econometrics Ilya Molchanov,Francesca Molinari,2018-04-05 Random set theory is a fascinating branch of mathematics that amalgamates techniques from topology convex geometry and probability theory Social scientists routinely conduct empirical work with data and modelling assumptions that reveal a set to which the parameter of interest belongs but not its exact value Random set theory provides a coherent mathematical framework to conduct identification analysis and statistical inference in this setting and has become a fundamental tool in econometrics and finance This is the first book dedicated to the use of the theory in econometrics written to be accessible for readers without a background in pure mathematics Molchanov and Molinari define the basics of the theory and illustrate the mathematical concepts by their application in the analysis of econometric models The book includes sets of exercises to accompany each chapter as well as examples to help readers apply the theory effectively   *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 cf 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   Advanced Fuzzy Logic Technologies in Industrial Applications Ying Bai,Hanqi Zhuang,Dali Wang,2007-01-17 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering The rapid development of control technology has an impact on all areas of the control discipline New theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges Much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination In the mid 1960s and contemporary with Kalman s pioneering papers on sta space models and optimal control L A Zadeh began publishing papers on fuzzy sets It took another decade before the fuzzy logic controller due to Mamdani and Assilion was reported in the literature ca 1974 and now the fuzzy logic control paradigm is entering its fifth decade of development and application Thus this new Advances in Industrial Control monograph edited by Ying Bai Hanqi Zhuang and Dali Wang on fuzzy logic control and its practical application comes as a timely reminder of the wide range of problems that can be solved by this continually evolving methodology   *Space, Structure and Randomness* Michel Bilodeau,Fernand

Meyer,Michel Schmitt,2007-12-23 Space structure and randomness these are the three key concepts underlying Georges Matheron s scientific work He first encountered them at the beginning of his career when working as a mining engineer and then they resurfaced in fields ranging from meteorology to microscopy What could these radically different types of applications possibly have in common First in each one only a single realisation of the phenomenon is available for study but its features repeat themselves in space second the sampling pattern is rarely regular and finally there are problems of change of scale This volume is divided in three sections on random sets geostatistics and mathematical morphology They reflect his professional interests and his search for underlying unity Some readers may be surprised to find theoretical chapters mixed with applied ones We have done this deliberately GM always considered that the distinction between the theory and practice was purely academic When GM tackled practical problems he used his skill as a physicist to extract the salient features and to select variables which could be measured meaningfully and whose values could be estimated from the available data Then he used his outstanding ability as a mathematician to solve the problems neatly and efficiently It was his capacity to combine a physicist s intuition with a mathematician s analytical skills that allowed him to produce new and innovative solutions to difficult problems The book should appeal to graduate students and researchers working in mathematics probability statistics physics spatial data analysis and image analysis In addition it will be of interest to those who enjoy discovering links between scientific disciplines that seem unrelated at first glance In writing the book the contributors have tried to put GM s ideas into perspective During his working life GM was a genuinely creative scientist He developed innovative concepts whose usefulness goes far beyond the confines of the discipline for which they were originally designed This is why his work remains as pertinent today as it was when it was first written **Advances in Fuzzy Sets, Possibility Theory, and Applications** P.P. Wang,2012-12-06 Since its inception by Professor Lotfi Zadeh about 18 years ago the theory of fuzzy sets has evolved in many directions and is finding applications in a wide variety of fields in which the phenomena under study are too complex or too ill defined to be analyzed by conventional techniques Thus by providing a basis for a systematic approach to approximate reasoning and inexact inference the theory of fuzzy sets may well have a substantial impact on scientific methodology in the years ahead particularly in the realms of psychology economics engineering law medicine decision analysis information retrieval and artificial intelli gence This volume consists of 24 selected papers invited by the editor Professor Paul P Wang These papers cover the theory and applications of fuzzy sets almost equal in number We are very fortunate to have Professor A Kaufmann to contribute an overview paper of the advances in fuzzy sets One special feature of this volume is the strong participation of Chinese researchers in this area The fact is that Chinese mathematicians scientists and engineers have made important contributions to the theory and applications of fuzzy sets through the past decade However not until the visit of Professor A Kaufmann to China in 1974 and again in 1980 did the Western World become fully aware of the important work of Chinese researchers Now Professor Paul Wang has initiated the

effort to document these important contributions in this volume to expose them to the western researchers

Mathematical Nonlinear Image Processing Edward R. Dougherty,Jaakko Astola,2012-12-06 Mathematical Nonlinear Image Processing deals with a fast growing research area The development of the subject springs from two factors 1 the great expansion of nonlinear methods applied to problems in imaging and vision and 2 the degree to which nonlinear approaches are both using and fostering new developments in diverse areas of mathematics Mathematical Nonlinear Image Processing will be of interest to people working in the areas of applied mathematics as well as researchers in computer vision Mathematical Nonlinear Image Processing is an edited volume of original research It has also been published as a special issue of the Journal of Mathematical Imaging and Vision Volume 2 Issue 2 3 Computational Science and Its Applications - ICCSA 2004 Antonio Laganà,Marina L. Gavrilova,Vipin Kumar,Youngsong Mun,C.J. Kenneth Tan,Osvaldo Gervasi,2004-04-29 The natural mission of Computational Science is to tackle all sorts of human problems and to work out intelligent automata aimed at alleviating the b den of working out suitable tools for solving complex problems For this reason ComputationalScience thoughoriginatingfromtheneedtosolvethemostch lenging problems in science and engineering computational science is the key player in the ght to gain fundamental advances in astronomy biology che stry environmental science physics and several other scienti c and engineering disciplines is increasingly turning its attention to all elds of human activity In all activities in fact intensive computation information handling kn ledge synthesis the use of ad hoc devices etc increasingly need to be exploited and coordinated regardless of the location of both the users and the various and heterogeneous computing platforms As a result the key to understanding the explosive growth of this discipline lies in two adjectives that more and more appropriately refer to Computational Science and its applications interoperable and ubiquitous Numerous examples of ubiquitous and interoperable tools and applicationsaregiveninthepresentfourLNCSvolumescontainingthecontri tions delivered at the 2004 International Conference on Computational Science and its Applications ICCSA 2004 held in Assisi Italy May 14 17 2004 **14th International Conference on Theory and Application of Fuzzy Systems and Soft Computing – ICAFS-2020** Rafik A. Aliev,Janusz Kacprzyk,Witold Pedrycz,Mo Jamshidi,Mustafa Babanli,Fahreddin M. Sadikoglu,2021-01-04 This book presents the proceedings of the 14th International Conference on Applications of Fuzzy Systems Soft Computing and Artificial Intelligence Tools ICAFS 2020 held in Budva Montenegro on August 27 28 2020 It includes contributions from diverse areas of fuzzy systems soft computing AI tools such as uncertain computation decision making under imperfect information deep learning and others The topics of the papers include theory and application of soft computing neuro fuzzy technology intelligent control deep learning machine learning fuzzy logic in data analytics evolutionary computing fuzzy logic and artificial intelligence in engineering social sciences business economics material sciences and others Theory of Stochastic Objects Athanasios Christou Micheas,2018-01-19 This book defines and investigates the concept of a random object To accomplish

this task in a natural way it brings together three major areas statistical inference measure theoretic probability theory and stochastic processes This point of view has not been explored by existing textbooks one would need material on real analysis measure and probability theory as well as stochastic processes in addition to at least one text on statistics to capture the detail and depth of material that has gone into this volume Presents and illustrates random objects in different contexts under a unified framework starting with rudimentary results on random variables and random sequences all the way up to stochastic partial differential equations Reviews rudimentary probability and introduces statistical inference from basic to advanced thus making the transition from basic statistical modeling and estimation to advanced topics more natural and concrete Compact and comprehensive presentation of the material that will be useful to a reader from the mathematics and statistical sciences at any stage of their career either as a graduate student an instructor or an academician conducting research and requiring quick references and examples to classic topics Includes 378 exercises with the solutions manual available on the book s website 121 illustrative examples of the concepts presented in the text many including multiple items in a single example The book is targeted towards students at the master s and Ph D levels as well as academicians in the mathematics statistics and related disciplines Basic knowledge of calculus and matrix algebra is required Prior knowledge of probability or measure theory is welcomed but not necessary

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