

Viktor Beneš and Josef Štěpán (Eds.)

Distributions with given marginals and moment problems

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Distributions With Given Marginals And Moment Problems

George A Anastassiou



Distributions With Given Marginals And Moment Problems:

Distributions with given Marginals and Moment Problems Viktor Benes, Josef Stepán, 2012-12-06 The last decade has seen a remarkable development of the Marginal and Moment Problems as a research area in Probability and Statistics Its attractiveness stemmed from its lasting ability to provide a researcher with difficult theoretical problems that have direct consequences for applications outside of mathematics The relevant research aims centered mainly along the following lines that very frequently met each other to provide surprising and useful results To construct a probability distribution to prove its existence at least with a given support and with some additional inner stochastic property defined typically either by moments or by marginal distributions To study the geometrical and topological structure of the set of probability distributions generated by such a property mostly with the aim to propose a procedure that would result in a stochastic model with some optimal properties within the set of probability distributions These research aims characterize also though only very generally the scientific program of the 1996 conference Distributions with given marginals and moment problems held at the beginning of September in Prague Czech Republic to perpetuate the tradition and achievements of the closely related 1990 Roma symposium On Frechet Classes 1 and 1993 Seattle AMS Summer Conference on Marginal Problem

Distributions With Given Marginals and Statistical Modelling Carles M. Cuadras, Josep Fortiana, José A. Rodríguez-Lallena, 2013-11-11 This volume contains the papers presented at the meeting Distributions with given marginals and statistical modelling held in Barcelona Spain July 17-20 2000 This is the fourth meeting on given marginals showing that this topic has a remarkable interest BRIEF HISTORY The construction of distributions with given marginals started with the seminal papers by Hoeffding 1940 and Fréchet 1951 Since then many others have contributed on this topic Dall'Aglio Farlie Gumbel Johnson Kellner Kotz Morgenstern Marshall Olkin Strassen Vitale Whitt etc as well as Arnold Cambanis Deheuvels Genest Frank Joe Kiefer Nelsen Rüschendorf Sampson Scarsini Tiit etc In 1957 Sklar and Schweizer introduced probabilistic metric spaces In 1975 Kiefer and Sampson studied the uniform representation of a bivariate distribution and proposed the desirable conditions that should be satisfied by any bivariate family In 1991 Darsow Nguyen and Olsen defined a natural operation between copulas with applications in stochastic processes In 1993 Alsina Nelsen and Schweizer introduced the notion of quasi copula

Distributions with Fixed Marginals and Related Topics Michael Deane Taylor, 1996 **Advances in Probability Distributions with Given Marginals** G. Dall'aglio, S. Kotz, G. Salinetti, Università degli studi di Roma "La Sapienza." Dipartimento di statistica, probabilità e statistiche applicate, 1991-04-30 Et moi si j'avais su comment en revenir One service mathematics has rendered the journey would be point alle human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non sense The series is divergent therefore we may be Eric T Bell able to do something with it O Heavenside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics

serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the *raison d'être* of this series

Optimization Under Uncertainty Shipra Agrawal, 2011 Modern decision models increasingly involve parameters that are unknown or uncertain Uncertainty is typically modeled by probability distribution over possible realizations of some random parameters In presence of high dimensional multivariate random variables estimating the joint probability distributions is difficult and optimization models are often simplified by assuming that the random variables are independent Although popular the effect of this heuristic on the solution quality was little understood This thesis centers around the following question How much can the expected cost increase if the random variables are arbitrarily correlated We introduce a new concept of Correlation Gap to quantify this increase For given marginal distributions Correlation Gap compares the expected value of a function on the worst case expectation maximizing joint distribution to its expected value on the independent product distribution Correlation gap captures the Price of Correlations in stochastic optimization using a distributionally robust stochastic programming model we show that a small correlation gap implies that the efficient heuristic of assuming independence is actually robust against any adversarial correlations while a large correlation gap suggests that it is important to invest more in data collection and learning correlations Apart from decision making under uncertainty we show that our upper bounds on correlation gap are also useful for solving many deterministic optimization problems like welfare maximization k dimensional matching and transportation problems for which it captures the performance of randomized algorithmic techniques like independent random selection and independent randomized rounding Our main technical results include upper and lower bounds on correlation gap based on the properties of the cost function We demonstrate that monotonicity and submodularity of function implies a small correlation gap Further we employ techniques of cross monotonic cost sharing schemes from game theory in a novel manner to provide a characterization of non submodularity functions with small correlation gap Results include small constant bounds for cost functions resulting from many popular applications such as stochastic facility location Steiner tree network design minimum spanning tree minimum makespan scheduling single source rent or buy network design etc Notably we show that for many interesting functions correlation gap is bounded irrespective of the dimension of the problem or type of marginal distributions Additionally we demonstrate the tightness of our characterization that is small correlation gap of a function implies existence of an approximate crossmonotonic cost sharing scheme This observation could also be useful for enhancing the understanding of such schemes and may be of independent interest

Ill-posed Problems in Probability and Stability of Random Sums Lev Borisovich Klebanov, Tomasz J. Kozubowski, Svetlozar Todorov Rachev, 2006 This volume is concerned with the problems in probability and statistics Ill posed problems are usually understood as those results where small changes in

the assumptions lead to arbitrarily large changes in the conclusions Such results are not very useful for practical applications where the presumptions usually hold only approximately because even a slightest departure from the assumed model may produce an uncontrollable shift in the outcome Often the ill posedness of certain practical problems is due to the lack of their precise mathematical formulation Consequently one can deal with such problems by replacing a given ill posed problem with another well posed problem which in some sense is close to the original one The goal in this book is to show that ill posed problems are not just a mere curiosity in the contemporary theory of mathematical statistics and probability On the contrary such problems are quite common and majority of classical results fall into this class The objective of this book is to identify problems of this type and re formulate them more correctly Thus alternative more precise in the above sense versions are proposed of numerous classical theorems in the theory of probability and mathematical statistics In addition some non standard problems are considered from this point of view

Optimal Transport Cédric Villani, 2008-10-26 At the close of the 1980s the independent contributions of Yann Brenier Mike Cullen and John Mather launched a revolution in the venerable field of optimal transport founded by G Monge in the 18th century which has made breathtaking forays into various other domains of mathematics ever since The author presents a broad overview of this area supplying complete and self contained proofs of all the fundamental results of the theory of optimal transport at the appropriate level of generality Thus the book encompasses the broad spectrum ranging from basic theory to the most recent research results PhD students or researchers can read the entire book without any prior knowledge of the field A comprehensive bibliography with notes that extensively discuss the existing literature underlines the book s value as a most welcome reference text on this subject

Copulas and Dependence Models with Applications Manuel Úbeda Flores, Enrique de Amo Artero, Fabrizio Durante, Juan Fernández Sánchez, 2017-10-13 This book presents contributions and review articles on the theory of copulas and their applications The authoritative and refereed contributions review the latest findings in the area with emphasis on classical topics like distributions with fixed marginals measures of association construction of copulas with given additional information etc The book celebrates the 75th birthday of Professor Roger B Nelsen and his outstanding contribution to the development of copula theory Most of the book s contributions were presented at the conference Copulas and Their Applications held in his honor in Almer a Spain July 3 5 2017 The chapter When Gumbel met Galambos is published open access under a CC BY 4 0 license

Stochastic Analysis, Control, Optimization and Applications William M. McEneaney, G. George Yin, Qing Zhang, 2012-12-06 In view of Professor Wendell Fleming s many fundamental contributions his profound influence on the mathematical and systems theory communities his service to the profession and his dedication to mathematics we have invited a number of leading experts in the fields of control optimization and stochastic systems to contribute to this volume in his honor on the occasion of his 70th birthday These papers focus on various aspects of stochastic analysis control theory and optimization and applications They include authoritative expositions and surveys as

well as research papers on recent and important issues The papers are grouped according to the following four major themes
 1 large deviations risk sensitive and Hoc control 2 partial differential equations and viscosity solutions 3 stochastic control filtering and parameter estimation and 4 mathematical finance and other applications We express our deep gratitude to all of the authors for their invaluable contributions and to the referees for their careful and timely reviews We thank Harold Kushner for having graciously agreed to undertake the task of writing the foreword Particular thanks go to H Thomas Banks for his help advice and suggestions during the entire preparation process as well as for the generous support of the Center for Research in Scientific Computation The assistance from the Birkhauser professional staff is also greatly appreciated

Advances in Mathematical Economics Volume 7 Shigeo Kusuoka, Akira Yamazaki, 2006-06-22 A lot of economic problems can be formulated as constrained optimizations and equilibration of their solutions Various mathematical theories have been supplying economists with indispensable machineries for these problems arising in economic theory Conversely mathematicians have been stimulated by various mathematical difficulties raised by economic theories The series is designed to bring together those mathematicians who are seriously interested in getting new challenging stimuli from economic theories with those economists who are seeking effective mathematical tools for their research The editorial board of this series comprises the following prominent economists and mathematicians Managing Editors S Kusuoka Univ Tokyo T Maruyama Keio Univ Editors R Anderson U C Berkeley C Castaing Univ Montpellier F H Clarke Univ Lyon I G Debreu U C Berkeley E Dierker Univ Vienna D Duffie Stanford Univ L C Evans U C Berkeley T Fujimoto Okayama Univ J M Grandmont CREST CNRS N Hirano Yokohama National Univ L Hurwicz Univ of Minnesota T Ichiishi Ohio State Univ A Ioffe Israel Institute of Technology S Iwamoto Kyushu Univ K Kamiya Univ Tokyo K Kawamata Keio Univ N Kikuchi Keio Univ H Matano Univ Tokyo K Nishimura Kyoto Univ M K Richter Univ Minnesota Y Takahashi Kyoto Univ M Valadier Univ Montpellier II A Yamaguti Kyoto Univ Ryukoku Univ M Yano Keio Univ

Principles of Copula Theory Fabrizio Durante, Carlo Sempi, 2015-07-01 This book gives readers the solid and formal mathematical background to apply copulas to a range of mathematical areas such as probability real analysis measure theory and algebraic structures The authors prove the results as simply as possible and unify various methods scattered throughout the literature in common frameworks including shuffles of copulas They also explore connections with related functions such as quasi copulas semi copulas and triangular norms that have been used in different domains

Copula Theory and Its Applications Piotr Jaworski, Fabrizio Durante, Wolfgang Karl Härdle, Tomasz Rychlik, 2010-07-16 Copulas are mathematical objects that fully capture the dependence structure among random variables and hence offer great flexibility in building multivariate stochastic models Since their introduction in the early 50 s copulas have gained considerable popularity in several fields of applied mathematics such as finance insurance and reliability theory Today they represent a well recognized tool for market and credit models aggregation of risks portfolio selection etc This book is divided into two main parts Part I Surveys contains 11

chapters that provide an up to date account of essential aspects of copula models Part II Contributions collects the extended versions of 6 talks selected from papers presented at the workshop in Warsaw

Contributions to Static and Time-varying Copula-based Modeling of Multivariate Association Martin Ruppert, 2012 Putting a particular emphasis on nonparametric methods that rely on modern empirical process techniques the author contributes to the theory of static and time varying stochastic models for multivariate association based on the concept of copulas These functions enable a profound understanding of multivariate association which is pivotal for judging whether a large set of risky assets entails diversification effects or aggravates risk from an entrepreneurial point of view Since serial dependence is a stylized fact of financial time series an asymptotic theory for estimating the structure of association in this context is developed under weak assumptions A new measure of multivariate association based on a notion of distance to stochastic independence is introduced Asymptotic results as well as hypothesis tests are established which are directly applicable to important types of multivariate financial time series To ensure that risk management properly captures the current structure of association it is crucial to assess the constancy of the structure Therefore nonparametric tests for a constant copula with either a specified or unspecified change point candidate are derived The thesis concludes with a study of characterizations of association between non continuous random variables

Copula Methods in Finance Umberto Cherubini, Elisa Luciano, Walter Vecchiato, 2004-10-22 Copula Methods in Finance is the first book to address the mathematics of copula functions illustrated with finance applications It explains copulas by means of applications to major topics in derivative pricing and credit risk analysis Examples include pricing of the main exotic derivatives barrier basket rainbow options as well as risk management issues Particular focus is given to the pricing of asset backed securities and basket credit derivative products and the evaluation of counterparty risk in derivative transactions

Probabilistic Inequalities George A Anastassiou, 2009-08-11 In this monograph the author presents univariate and multivariate probabilistic inequalities with coverage on basic probabilistic entities like expectation variance moment generating function and covariance These are built on the recent classical form of real analysis inequalities which are also discussed in full details This treatise is the culmination and crystallization of the author's last two decades of research work in related discipline Each of the chapters is self contained and a few advanced courses can be taught out of this book Extensive background and motivations for specific topics are given in each chapter A very extensive list of references is also provided at the end The topics covered in this unique book are wide ranging and diverse The opening chapters examine the probabilistic Ostrowski type inequalities and various related ones as well as the largely discusses about the Grothendieck type probabilistic inequalities The book is also about inequalities in information theory and the Csiszar's f Divergence between probability measures A great section of the book is also devoted to the applications in various directions of Geometry Moment Theory Also the development of the Gr ss type and Chebyshev Gr ss type inequalities for Stieltjes integrals and the applications in probability are explored in detail The final

chapters discuss the important real analysis methods with potential applications to stochastics The book will be of interest to researchers and graduate students and it is also seen as an invaluable reference book to be acquired by all science libraries as well as seminars that conduct discussions on related topics Bayesian Robustness James O. Berger,1996 *Optimality* Javier Rojo,2006 **Selected Papers on Probability and Statistics** ,2009 This volume contains translations of papers that originally appeared in the Japanese journal Sugaku The papers range over a variety of topics in probability theory statistics and applications This volume is suitable for graduate students and research mathematicians interested in probability and statistics **An Introduction to Copulas** Roger B. Nelsen,2013-03-09 Copulas are functions that join multivariate distribution functions to their one dimensional margins The study of copulas and their role in statistics is a new but vigorously growing field In this book the student or practitioner of statistics and probability will find discussions of the fundamental properties of copulas and some of their primary applications The applications include the study of dependence and measures of association and the construction of families of bivariate distributions With nearly a hundred examples and over 150 exercises this book is suitable as a text or for self study The only prerequisite is an upper level undergraduate course in probability and mathematical statistics although some familiarity with nonparametric statistics would be useful Knowledge of measure theoretic probability is not required Roger B Nelsen is Professor of Mathematics at Lewis Clark College in Portland Oregon He is also the author of *Proofs Without Words Exercises in Visual Thinking* published by the Mathematical Association of America *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

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