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Heavy-Tailed Distributions and Robustness in Economics and Finance

Heavy Tailed Distributions And Robustness In Economics And Finance Lecture Notes In Statistics

Michael R. Chernick



Heavy Tailed Distributions And Robustness In Economics And Finance Lecture Notes In Statistics:

Heavy-Tailed Distributions and Robustness in Economics and Finance Marat Ibragimov, Rustam Ibragimov, Johan Walden, 2015-05-23 This book focuses on general frameworks for modeling heavy tailed distributions in economics finance econometrics statistics risk management and insurance A central theme is that of non robustness i e the fact that the presence of heavy tails can either reinforce or reverse the implications of a number of models in these fields depending on the degree of heavy tailed ness These results motivate the development and applications of robust inference approaches under heavy tails heterogeneity and dependence in observations Several recently developed robust inference approaches are discussed and illustrated together with applications *Heavy Tails And Copulas: Topics In Dependence Modelling In Economics And Finance* Rustam Ibragimov, Artem Prokhorov, 2017-02-24 Overall the book is highly technical including full mathematical proofs of the results stated Potential readers are post graduate students or researchers in Quantitative Risk Management willing to have a manual with the state of the art on portfolio diversification and risk aggregation with heavy tails including the fundamental theorems as well as collateral but most useful results on majorization and copula theory Quantitative Finance This book offers a unified approach to the study of crises large fluctuations dependence and contagion effects in economics and finance It covers important topics in statistical modeling and estimation which combine the notions of copulas and heavy tails two particularly valuable tools of today s research in economics finance econometrics and other fields in order to provide a new way of thinking about such vital problems as diversification of risk and propagation of crises through financial markets due to contagion phenomena among others The aim is to arm today s economists with a toolbox suited for analyzing multivariate data with many outliers and with arbitrary dependence patterns The methods and topics discussed and used in the book include in particular majorization theory heavy tailed distributions and copula functions all applied to study robustness of economic financial and statistical models and estimation methods to heavy tails and dependence **Essays in Honor of Joon Y. Park** Yoosoon Chang, Sokbae Lee, J. Isaac Miller, 2023-04-24 Volumes 45a and 45b of Advances in Econometrics honor Professor Joon Y Park who has made numerous and substantive contributions to the field of econometrics over a career spanning four decades since the 1980s and counting Handbook of Heavy Tailed Distributions in Finance S.T Rachev, 2003-03-05 The Handbooks in Finance are intended to be a definitive source for comprehensive and accessible information in the field of finance Each individual volume in the series should present an accurate self contained survey of a sub field of finance suitable for use by finance and economics professors and lecturers professional researchers graduate students and as a teaching supplement The goal is to have a broad group of outstanding volumes in various areas of finance The Handbook of Heavy Tailed Distributions in Finance is the first handbook to be published in this series This volume presents current research focusing on heavy tailed distributions in finance The contributions cover methodological issues i e probabilistic statistical and econometric modelling under non Gaussian

assumptions as well as the applications of the stable and other non Gaussian models in finance and risk management

Numerical Methods for Reliability and Safety Assessment Seifedine Kadry, Abdelkhalak El Hami, 2014-09-30 This book offers unique insight on structural safety and reliability by combining computational methods that address multiphysics problems involving multiple equations describing different physical phenomena and multiscale problems involving discrete sub problems that together describe important aspects of a system at multiple scales The book examines a range of engineering domains and problems using dynamic analysis nonlinear methods error estimation finite element analysis and other computational techniques This book also Introduces novel numerical methods Illustrates new practical applications Examines recent engineering applications Presents up to date theoretical results Offers perspective relevant to a wide audience including teaching faculty graduate students researchers and practicing engineers

Bootstrap Methods Michael R. Chernick, 2011-09-23 A practical and accessible introduction to the bootstrap method newly revised and updated Over the past decade the application of bootstrap methods to new areas of study has expanded resulting in theoretical and applied advances across various fields Bootstrap Methods Second Edition is a highly approachable guide to the multidisciplinary real world uses of bootstrapping and is ideal for readers who have a professional interest in its methods but are without an advanced background in mathematics Updated to reflect current techniques and the most up to date work on the topic the Second Edition features The addition of a second extended bibliography devoted solely to publications from 1999 2007 which is a valuable collection of references on the latest research in the field A discussion of the new areas of applicability for bootstrap methods including use in the pharmaceutical industry for estimating individual and population bioequivalence in clinical trials A revised chapter on when and why bootstrap fails and remedies for overcoming these drawbacks Added coverage on regression censored data applications P value adjustment ratio estimators and missing data New examples and illustrations as well as extensive historical notes at the end of each chapter With a strong focus on application detailed explanations of methodology and complete coverage of modern developments in the field Bootstrap Methods Second Edition is an indispensable reference for applied statisticians engineers scientists clinicians and other practitioners who regularly use statistical methods in research It is also suitable as a supplementary text for courses in statistics and resampling methods at the upper undergraduate and graduate levels

Stable Paretian Models in Finance Svetlozar T. Rachev, Stefan Mittnik, 2000-06-15 This text is a comprehensive treatment of the Asset Pricing Theory based on the assumption that returns are distributed non normally More general models are also considered and the corresponding formulae are derived and it describes estimation techniques and presents empirical applications

AMSTAT News American Statistical Association, 2004

Long-Memory Processes Jan Beran, Yuanhua Feng, Sucharita Ghosh, Rafal Kulik, 2013-05-14 Long memory processes are known to play an important part in many areas of science and technology including physics geophysics hydrology telecommunications economics finance climatology and network engineering In the

last 20 years enormous progress has been made in understanding the probabilistic foundations and statistical principles of such processes This book provides a timely and comprehensive review including a thorough discussion of mathematical and probabilistic foundations and statistical methods emphasizing their practical motivation and mathematical justification Proofs of the main theorems are provided and data examples illustrate practical aspects This book will be a valuable resource for researchers and graduate students in statistics mathematics econometrics and other quantitative areas as well as for practitioners and applied researchers who need to analyze data in which long memory power laws self similar scaling or fractal properties are relevant

Journal of the American Statistical Association ,2006 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

Handbook Of Heavy-tailed Distributions In Asset Management And Risk Management Michele Leonardo Bianchi,Stoyan V Stoyanov,Gian Luca Tassinari, Frank J Fabozzi, Sergio Focardi, 2019-03-08 The study of heavy tailed distributions allows researchers to represent phenomena that occasionally exhibit very large deviations from the mean The dynamics underlying these phenomena is an interesting theoretical subject but the study of their statistical properties is in itself a very useful endeavor from the point of view of managing assets and controlling risk In this book the authors are primarily concerned with the statistical properties of heavy tailed distributions and with the processes that exhibit jumps A detailed overview with a Matlab implementation of heavy tailed models applied in asset management and risk managements is presented The book is not intended as a theoretical treatise on probability or statistics but as a tool to understand the main concepts regarding heavy tailed random variables and processes as applied to real world applications in finance Accordingly the authors review approaches and methodologies whose realization will be useful for developing new methods for forecasting of financial variables where extreme events are not treated as anomalies but as intrinsic parts of the economic process

Handbook of Heavy Tailed Distributions in Finance S.T Rachev, 2003-03-05 This first volume of the Handbooks in Finance series explores the application of heavy tailed distributions to the analysis of financial data Heavy tailed distributions can be used to model real world fractal phenomena in a range of disciplines including finance and risk management

An Introduction to Heavy-Tailed and Subexponential Distributions Sergey Foss, Dmitry Korshunov, Stan Zachary, 2013-05-21 Heavy tailed probability distributions are an important component in the modeling of many stochastic systems They are frequently used to accurately model inputs and outputs of computer and data networks and service facilities such as call centers They are an essential for describing risk processes in finance and also for insurance premia pricing and such distributions occur naturally in models of epidemiological spread The class includes distributions with power law tails such as the Pareto as well as the lognormal and certain Weibull distributions One of the highlights of this new edition is that it includes problems at the end of

each chapter Chapter 5 is also updated to include interesting applications to queueing theory risk and branching processes New results are presented in a simple coherent and systematic way Graduate students as well as modelers in the fields of finance insurance network science and environmental studies will find this book to be an essential reference **Tails'99**, 1999 Handbook of heavy tailed distributions in finance Svetlozar T. Rachev, 2003 **Fat-Tailed Distributions** Roger M. Cooke, Daan Nieboer, Jolanta Misiewicz, 2014-11-11 This title is written for the numerate nonspecialist and hopes to serve three purposes First it gathers mathematical material from diverse but related fields of order statistics records extreme value theory majorization regular variation and subexponentiality All of these are relevant for understanding fat tails but they are not to our knowledge brought together in a single source for the target readership Proofs that give insight are included but for most fussy calculations the reader is referred to the excellent sources referenced in the text Multivariate extremes are not treated This allows us to present material spread over hundreds of pages in specialist texts in twenty pages Chapter 5 develops new material on heavy tail diagnostics and gives more mathematical detail Since variances and covariances may not exist for heavy tailed joint distributions Chapter 6 reviews dependence concepts for certain classes of heavy tailed joint distributions with a view to regressing heavy tailed variables Second it presents a new measure of obesity The most popular definitions in terms of regular variation and subexponentiality invoke putative properties that hold at infinity and this complicates any empirical estimate Each definition captures some but not all of the intuitions associated with tail heaviness Chapter 5 studies two candidate indices of tail heaviness based on the tendency of the mean excess plot to collapse as data are aggregated The probability that the largest value is more than twice the second largest has intuitive appeal but its estimator has very poor accuracy The Obesity index is defined for a positive random variable X as $Ob(X) = P(X_1 \geq 4X_2, X_2 \geq 3X_1, X_3 \geq 4X_4, \dots, X_{i-1} \geq 4X_i)$ independent copies of X For empirical distributions obesity is defined by bootstrapping This index reasonably captures intuitions of tail heaviness Among its properties if 1 then $Ob(X) \leq Ob(Y)$ However it does not completely mimic the tail index of regularly varying distributions or the extreme value index A Weibull distribution with shape $1/4$ is more obese than a Pareto distribution with tail index 1 even though this Pareto has infinite mean and the Weibull's moments are all finite Chapter 5 explores properties of the Obesity index Third and most important we hope to convince the reader that fat tail phenomena pose real problems they are really out there and they seriously challenge our usual ways of thinking about historical averages outliers trends regression coefficients and confidence bounds among many other things Data on flood insurance claims crop loss claims hospital discharge bills precipitation and damages and fatalities from natural catastrophes drive this point home While most fat tailed distributions are bad research in fat tails is one distribution whose tail will hopefully get fatter The Fundamentals of Heavy Tails Jayakrishnan Nair, Adam Wierman, Bert Zwart, 2022-06-09 Heavy tails extreme events or values more common than expected emerge everywhere the economy natural events and social and information networks are just a few examples Yet after decades of progress they are still treated as mysterious surprising

and even controversial primarily because the necessary mathematical models and statistical methods are not widely known. This book for the first time provides a rigorous introduction to heavy tailed distributions accessible to anyone who knows elementary probability. It tackles and tames the zoo of terminology for models and properties demystifying topics such as the generalized central limit theorem and regular variation. It tracks the natural emergence of heavy tailed distributions from a wide variety of general processes building intuition. And it reveals the controversy surrounding heavy tails to be the result of flawed statistics then equips readers to identify and estimate with confidence. Over 100 exercises complete this engaging package.

Stable Distributions John Nolan, 2007-03-01. Stable distributions model phenomena in a wide range of applications in real systems. Their intriguing mathematical properties have long been of interest but the lack of computational tools has prevented their practical application. This book the first to deal with stable distributions as a practical tool develops an intuition for stable distributions by giving a complete self contained derivation of their properties and describing accurate numerical methods for computing stable laws.

Inference for Heavy Tailed Distributions R. B. Athreya, S. N. Lahiri, W. Wu, 1993. *The Laplace Distribution and Generalizations* Samuel Kotz, Tomasz Kozubowski, Krzysztof Podgorski, 2012-11-09. This book describes the inferential and modeling advantages that this distribution together with its generalizations and modifications offers. The exposition systematically unfolds with many examples, tables, illustrations and exercises. A comprehensive index and extensive bibliography also make this book an ideal text for a senior undergraduate and graduate seminar on statistical distributions or for a short half term academic course in statistics, applied probability and finance.

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