

Approximate computation of expectations : a canonical Stein operator

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Abstract: We propose a canonical definition of the Stein operator and Stein class of a distribution. The resulting Stein identity highlights the unifying theme behind the literature on Stein's method. Viewing the Stein operator as an operator acting on pairs of functions, we provide an extensive toolkit for distributional comparisons. Several abstract approximation theorems are provided. Our approach is illustrated for comparison of several pairs of distributions : normal vs normal, normal vs Student, maximum of random variables vs Gumbel and exponential, and Beta-Binomial vs Beta.

AMS 2000 subject classifications: Primary 60G10; secondary 60G15, 60G40, 60G05.

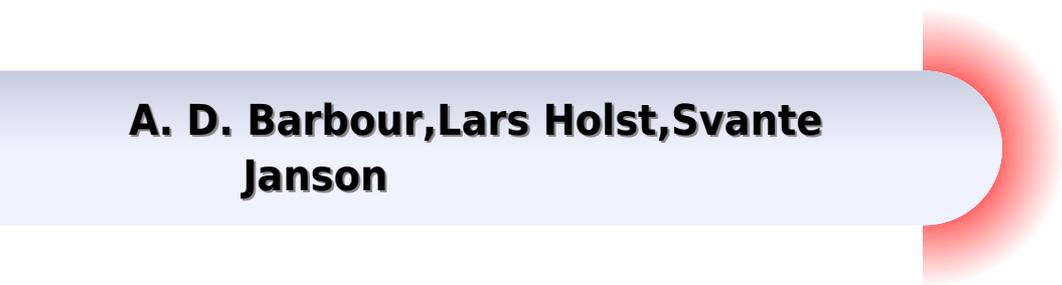
Keywords and phrases: Density approach, Stein's method, comparison of distributions.

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**A. D. Barbour, Lars Holst, Svante
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Theoretical Statistics Robert W. Keener,2010-09-08 Intended as the text for a sequence of advanced courses this book covers major topics in theoretical statistics in a concise and rigorous fashion The discussion assumes a background in advanced calculus linear algebra probability and some analysis and topology Measure theory is used but the notation and basic results needed are presented in an initial chapter on probability so prior knowledge of these topics is not essential The presentation is designed to expose students to as many of the central ideas and topics in the discipline as possible balancing various approaches to inference as well as exact numerical and large sample methods Moving beyond more standard material the book includes chapters introducing bootstrap methods nonparametric regression equivariant estimation empirical Bayes and sequential design and analysis The book has a rich collection of exercises Several of them illustrate how the theory developed in the book may be used in various applications Solutions to many of the exercises are included in an appendix

Testing Statistical Hypotheses E.L. Lehmann,Joseph P. Romano,2022-06-22 The third edition of *Testing Statistical Hypotheses* updates and expands upon the classic graduate text emphasizing optimality theory for hypothesis testing and confidence sets The principal additions include a rigorous treatment of large sample optimality together with the requisite tools In addition an introduction to the theory of resampling methods such as the bootstrap is developed The sections on multiple testing and goodness of fit testing are expanded The text is suitable for Ph D students in statistics and includes over 300 new problems out of a total of more than 760

The Mathematics of Shuffling Cards Persi Diaconis,Jason Fulman,2023-03-20 This book gives a lively development of the mathematics needed to answer the question How many times should a deck of cards be shuffled to mix it up The shuffles studied are the usual ones that real people use riffle overhand and smooshing cards around on the table The mathematics ranges from probability Markov chains to combinatorics symmetric function theory to algebra Hopf algebras There are applications to magic tricks and gambling along with a careful comparison of the mathematics to the results of real people shuffling real cards The book explores links between shuffling and higher mathematics Lie theory algebraic topology the geometry of hyperplane arrangements stochastic calculus number theory and more It offers a useful springboard for seeing how probability theory is applied and leads to many corners of advanced mathematics The book can serve as a text for an upper division course in mathematics statistics or computer science departments and will be appreciated by graduate students and researchers in mathematics statistics and computer science as well as magicians and people with a strong background in mathematics who are interested in games that use playing cards

Examples and Problems in Mathematical Statistics Shelemyahu Zacks,2013-12-17 Provides the necessary skills to solve problems in mathematical statistics through theory concrete examples and exercises With a clear and detailed approach to the fundamentals of statistical theory *Examples and Problems in Mathematical Statistics* uniquely bridges the gap between theory and application and presents numerous problem solving examples that

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DasGupta, 2004 **Random Matrices and Iterated Random Functions** Gerold Alsmeyer, Matthias Löwe, 2013-08-28 Random Matrices are one of the major research areas in modern probability theory due to their prominence in many different fields such as nuclear physics statistics telecommunication free probability non commutative geometry and dynamical systems A great deal of recent work has focused on the study of spectra of large random matrices on the one hand and on iterated random functions especially random difference equations on the other However the methods applied in these two research areas are fairly dissimilar Motivated by the idea that tools from one area could potentially also be helpful in the other the volume editors have selected contributions that present results and methods from random matrix theory as well as from the theory of iterated random functions This work resulted from a workshop that was held in Münster Germany in 2011 The aim of the workshop was to bring together researchers from two fields of probability theory random matrix theory and the theory of iterated random functions Random matrices play fundamental yet very different roles in the two fields Accordingly leading figures and young researchers gave talks on their field of interest that were also accessible to a broad audience **Probability Models**, 2024-10-24 Probability Models Volume 51 in the Handbook of Statistics series highlights new advances in the field with this new volume presenting interesting chapters on Stein's methods Probabilities and thermodynamics third law Random Matrix Theory General tools for understanding fluctuations of random variables An approximation scheme to compute the Fisher Rao distance between multivariate normal distributions Probability Models Applied to Reliability and Availability Engineering Backward stochastic differential equation Stochastic optimization theory and viscous solution of HJB equation and much more Additional chapters cover Probability Models in Machine Learning The recursive stochastic algorithm randomized urn models and response adaptive randomization in clinical trials Random matrix theory local laws and applications KOO methods and their high dimensional consistencies in some multivariate models Fourteen Lectures on Inference for Stochastic Processes and A multivariate cumulative damage model and some applications

Provides the latest information on probability models Offers outstanding and original reviews on a range of probability models research topics Serves as an indispensable reference for researchers and students alike **Stochastic Analysis and Related Topics** Fabrice Baudoin,Jonathon Peterson,2017-10-04 The articles in this collection are a sampling of some of the research presented during the conference Stochastic Analysis and Related Topics held in May of 2015 at Purdue University in honor of the 60th birthday of Rodrigo Ba uelos A wide variety of topics in probability theory is covered in these proceedings including heat kernel estimates Malliavin calculus rough paths differential equations L vy processes Brownian motion on manifolds and spin glasses among other topics **Bulletin - Institute of Mathematical Statistics** Institute of Mathematical Statistics,1992 *R.R. Bahadur's Lectures on the Theory of Estimation* Raghu Raj Bahadur,Stephen M. Stigler,2002 In the Winter Quarter of the academic year 1984 1985 Raj Bahadur gave a series of lectures on estimation theory at the University of Chicago Page i **Approximate Computation of Expectations** Charles Stein,1986

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