

Current Issues in Statistical Inference: Essays in Honor of D. Basu

edited by
M. Ghosh & P. K. Pathak

D. Basu's emphasis has always been on foundations and underlying concepts rather than on technicalities. In keeping with his philosophy, essays in this festschrift volume, dedicated to Basu on the occasion of his 65th birthday, place the major emphasis on the foundational issues of statistical inference. Most of the papers in this volume are review articles written by his friends and colleagues in those areas of statistics that have interested Basu most during his active research career—information, likelihood, ancillarity, randomization, fiducial probabilities, logical foundations of survey sampling, and many related concepts. These papers are also written in a narrative style which has typified so much of Basu's own writings in statistics.

Contents

Conditional inference from confidence sets *by G. Casella*; Intervention experiments, randomization and inference *by O. Kempthorne*; Ancillarity *by E. L. Lehmann & F. W. Scholz*; The Pitman closeness of statistical estimators: Latent years and the renaissance *by P. K. Sen*; Unbiased sequential binomial estimation *by Bimal K. Sinha & Bikas K. Sinha*; Sufficiency *by S. Yamada & H. Morimoto*; Foundations of statistical quality control *by R. E. Barlow & T. Z. Irony*; Prequential data analysis *by A. P. Dawid*; Bayesian nonparametric inference *by T. S. Ferguson, E. G. Phadia, & R. C. Tiwari*; Hierarchical and empirical Bayes multivariate estimation *by M. Ghosh*; Basu's contributions to the foundations of sample survey *by G. Meeden*; Survey sampling—As I understand it *by V. P. Godambe*; Two basic partial orderings for distributions derived from Schur functions and majorization *by K. Joag-Dev & J. Sethuraman*; Optimal integration of surveys *by P. K. Pathak & M. Fahimi*; The model based (prediction) approach to finite population sampling theory *by R. M. Royall*; Sampling theory using experimental design concepts *by J. Srivastava & Z. Ouyang*

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Selected Proceedings of the Sheffield Symposium on Applied Probability

edited by
I. V. Basawa & R. L. Taylor

Proceedings of the Symposium on Applied Probability, Sheffield, August 1989. The purpose of the Sheffield Symposium on Applied Probability was to focus attention on some of the prominent directions in applied probability. This volume contains several major papers covering models in epidemiology, genetics, random fields, branching processes, random walks, directed polymers and evolution time-scales. The reader will find a broad array of interesting problems discussed in the eighteen technical articles included in this volume.

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Some aspects of the Sheffield Symposium *by I. V. Basawa & R. L. Taylor*; Some remarks on recent developments in applied probability *by J. Gani*; The promotion and development of applied probability: A note on the contributions of Joe Gani *by C. C. Heyde*; Applications of random walks on finite graphs *by D. Aldous*; Analysis of infectious disease data from a sample of households *by N. G. Becker*; On directed polymers in a random environment *by E. Bolthausen*; A look at perturbation approximations for epidemics *by H. E. Daniels*; A central limit theorem for evolving random fields *by P. E. Greenwood & M. Ossiander*; The two-locus ancestral graph *by R. C. Griffiths*; When did Joe's great...grandfather live? Or: On the time scale of evolution *by P. Jagers, O. Nerman, & Z. Taib*; Point processes and inference for rainfall fields *by M. J. Phelan*; A construction for processes with history-dependent transition intensities *by P. Whittle*; Accumulation points of a particular normalized random walk *by A. Adler*; Uniform convergence of martingales in the one-dimensional branching random walk *by J. D. Biggins*; An urn model and the coalescent in neutral infinite-alleles genetic processes *by D. Branson*; The genealogy of patterns of ESS's *by C. Cannings & G. T. Vickers*; Extinction probabilities of branching processes in random environments *by D. R. Grey & L. Zhunwei*; Measure-valued processes: Techniques and applications *by K. J. Hochberg*; Saddlepoint approximations in the case of intractable cumulant generating functions *by J. E. Kolassa*; *U*-statistics and double stable integrals *by J. Mijneer*; Gene conversion and the infinite-sites model *by S. A. Sawyer*

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Stochastic Orders and Decision Under Risk

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K. Mosler & M. Scarsini

A selection of papers presented at the International Workshop on Stochastic Orders and Decision Under Risk, Hamburg, May 1989. The aim of this workshop was to contribute to the theory and applications of stochastic orders and to gather scientists from different disciplines who are using similar mathematical tools in their fields. The workshop gathered individuals from probability theory, statistics, reliability, queueing, economics, finance, insurance, and mathematical physics. The twenty-three papers in this volume represent a selection of those presented in Hamburg.

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Remarks on a random surface *by D. B. Abraham & C. M. Newman*; Stochastic order and martingale dynamics in multivariate life length models: A review *by E. Arjas & I. Norros*; Preservation and attenuation of inequality as measured by the Lorenz order *by B. C. Arnold*; Lorenz ordering of order statistics *by B. C. Arnold & J. A. Villasenor*; Stochastic orders and their application to a unified approach to various concepts of dependence and association *by R. Bergmann*; Second order Bonferroni-type, product-type and setwise probability inequalities *by H. W. Block, T. Costigan, & A. R. Sampson*; Optimal stopping of life testing: Use of stochastic orderings in the case of conditionally exponential lifetimes *by C. Costantini & F. Spizzichino*; Multivariate probability inequalities: Convolution theorems, composition theorems, and concentration inequalities *by M. L. Eaton & M. D. Perlman*; Stochastic orderings in reliability *by K.-W. Gaede*; Representation theorems for measures of location and for measures of dispersion *by A. Giovagnoli & G. Regoli*; Orderings of risks and their actuarial applications *by W.-R. Heilmann & K.-J. Schroter*; Applications of likelihood orderings in economics *by I. Jewitt*; Stochastic orders in welfare economics *by M. Le Breton*; Ordering regression models of Gaussian processes *by H. Luschgy*; Multivariate stochastic orderings and generating cones of functions *by A. W. Marshall*; Stochastic ordering for Markov processes on partially ordered spaces with applications to queueing networks *by W. A. Massey*; Some theory of stochastic dominance *by K. Mosler & M. Scarsini*; Bounds for distributions with multivariate marginals *by L. Ruschendorf*; Repair policies and stochastic order *by T. H. Savits*; Regular, sample path and strong convexity: A review *by M. Shaked & J. G. Shanthikumar*; Stochastic orders and comparison of experiments *by E. Torgersen*; Expectation inequalities from convex geometry *by R. A. Vitale*; Concentration indices and concentration curves *by S. Yitzhaki & I. Olkin*

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