Zeitschrift für

Wahrscheinlichkeitstheorie und verwandte Gebiete

Probability Theory and Stochastics

Band 65 (Schluß-)Heft 4 1984

- 483 A. Dabrowski, H. Dehling, W. Philipp: An Almost Sure Invariance Principle for Triangular Arrays of Banach Space Valued Random Variables
- 493 I. Shigekawa: Transformations of the Brownian Motion on a Riemannian Symmetric Space
- 523 E. Haeusler: An Exact Rate of Convergence in the Functional Central Limit Theorem for Special Martingale Difference Arrays
- 535 P. Imkeller: Ito's Formula for Continuous (N, d)-Processes
- 563 R.W.R. Darling: Approximating Ito Integrals of Differential Forms and Geodesic Deviation
- 573 M. Chaleyat-Maurel, D. Michel: Hypoellipticity Theorems and Conditional Laws-
- 599 F. Götze: Expansions for von Mises Functionals
- 627 S.B. Shlosman: The Influence of Non-Commutativity on Limit Theorems

Zeitschrift für

Wahrscheinlichkeitstheorie und verwandte Gebiete

Probability Theory and Stochastics

Band 66 Heft 1 1984

- G. Kallianpur, R.L. Karandikar: Measure-Valued Equations for the Optimum Filter in Finitely Additive Nonlinear Filtering Theory
- 19 N.-M.-Duc, N.-X.-Loc: On the Transformation of Martingales with a Two Dimensional Parameter Set by Convex Functions
- 25 Z. Huang: Stochastic Integrals on General Topological Measurable Spaces
- 41 F. Portal, A. Touati: Théorèmes de grandes deviations pour des mesures aléatoires
- 61 R.A. Maller: Relative Stability of Trimmed Sums
- 81 A.F. Karr: Combined Nonparametric Inference and State Estimation for Mixed Poisson Processes
- 97 P.L. Chesson: Persistence of a Markovian Population in a Patchy Environment
- 109 R. Cogburn: The Ergodic Theory of Markov Chains in Random Environments
- 129 K.B. Erickson: Rate of Expansion of an Inhomogeneous Branching Process of Brownian Particles
- 141 N.C. Jain, W.E. Pruitt: An Invariance Principle for the Local Time of a Recurrent Bandom Walk

The Annals of Statistics

V	α l	1	2

December 1984

No. 4

$\mathbf{S}_{\mathbf{i}}$	pecial	Invite	d Pap	er
nt	freque	ncv cal	culatio	ns

Bayesianly justifiable and relevant frequency calculations for the applied statistician Donald B. Rubin				
Articles				
Admissibility, difference equations and recurrence in estimating a Poisson				
mean				
Distribution-free lower bounds in density estimation Luc Devroye and Clark S. Penrod Luc Devroye and Clark S. Penrod				
On a class of nonparametric density and regression estimators V. K. KLONIAS An asymptotically optimal window selection rule for kernel density estimates CHARLES J. STONE				
Empirical distributions in selection bias models Comment on Vardi's paper C. L. Mallows Asymptotic behavior of M-estimators of p regression parameters when p²/n is large I. consistency On the stability of Bayes estimators for Gaussian processes IAN W. McKeague Some model robust designs in regression Jerome Sacks and Donald Ylvisaker Robust regression based on infinitesimal neighbourhoods P. J. Bickel Asymptotic normality for a general class of statistical functions and applications to measures of spread Paul Janssen, Robert Serfling, and Noël Veraverbeke Asymptotic efficiency of estimators of functionals of mixed distributions Luke Tierney and Diane Lambert Asymptotic properties of maximum likelihood estimates in the mixed Poisson model Diane Lambert and Luke Tierney Bootstrap and cross-validation estimates of the prediction error for linear regression models Order selection in nonstationary autoregressive models Order selection in nonstationary autoregressive models Ruey S. Tsay Estimation of a noisy discrete-time step function: Bayes and empirical Bayes approaches Yi-Ching Yao All admissible linear estimators of the mean of a Gaussian distribution on a Hilbert space Avi Mandelbaum Tail estimates motivated by extreme value theory				
On analysis of variance in the mixed model K. G. BROWN Generating the intrablock and interblock subgroups for confounding in general factorial experiments BRUCE JAY COLLINGS				
Short Communications				
A large deviation result for the likelihood ratio statistic in exponential families STAVROS KOUROUKLIS				
Bahadur optimality of sequential experiments for exponential families STAVROS KOUROUKLIS				
On Karlin's conjecture for random replacement sampling plans O. Krafft and M. Schaefer				
The nature of simple random sampling				
On nonnegative quadratic unbiased estimability of variance components THOMAS MATHEW				
Distribution-free pointwise consistency of kernel regression estimate WŁODZIMIERZ GREBLICKI, ADAM KRZYŹAK, AND MIROSŁAW PAWLAK An asymptotic expansion of the nonnull distribution of Wilks criterion for testing the multivariate linear hypothesis				

Book Review on Generalized Linear Models by McCullagh and Nelder

IMS LECTURE NOTES - MONOGRAPH SERIES

This series provides an avenue for the rapid, but carefully refereed, publication of important research results in comprehensive form and expository style. These volumes should be of great value to researchers and advanced students in statistics, probability, and related fields. The series editor is Shanti S. Gupta, Purdue University.

EMPIRICAL PROCESSES
by Peter Gaenssler, University of Munich

A thorough and detailed description of topics in the timely and growing area of empirical processes.

This volume combines new and familiar results in a context that leads to broad unification and simplification of methods, and to prospects for new kinds of applications. This work is mainly concerned with limit theorems for empirical measures and C-processes.

179 pages List price \$20 IMS members \$12

ZONAL POLYNOMIALS

by Akimichi Takemura, Purdue University
A self-contained development of zonal polynomials in the framework of standard multivariate analysis.

Zonal polynomials have been used extensively in the study of noncentral multivariate distributions. This easily understood treatment uses only the standard tools of linear algebra and multivariate normal distribution theory.

110 pages List price \$15 IMS members \$9

INEQUALITIES IN STATISTICS AND PROBABILITY

edited by Y.L. Tong, University of Nebraska
Proceedings of the Symposium on Inequalities in Statistics and
Probability held in Lincoln, Nebraska during October 1982.

This volume reports on the recent rapid growth in the field of inequalities due, in part, to widespread applications in reliability theory, in multivariate nonnormal analysis, and in optimization and constraint problems. The volume contains thirty expository and research papers by leaders in the field.

263 pages List price \$25 IMS members \$15

ADDITIONAL TITLES

Previously published: Volume 1, Essays on the Prediction Process by Frank Knight (\$10/members \$8); Volume 2, Survival Analysis edited by John Crowley and Richard A. Johnson (\$25/members \$15). Forthcoming: The Likelihood Principle by J. Berger and R. Wolpert, Group Theory in Statistics by P. Diaconis, Approximate Computations of Expectations by C. Stein, and Foundations of Exponential Families by L. Brown.

Prepaid orders for individual volumes and requests for standing order enrollments (eligible for 20% prepublication discounts from list prices) should be sent to

Institute of Mathematical Statistics 3401 Investment Blvd., #6 Hayward, CA 94545 (USA)