

The Annual Index to the Statistical
Literature of the World

CURRENT INDEX TO STATISTICS

APPLICATIONS, METHODS AND THEORY

VOLUME 10 (1984) – NOW AVAILABLE

- Nearly 8400 articles from “core” and “related” journals and books indexed for 1984.
- Complete coverage of 63 journals in statistics and related fields.
- Statistics articles selected and indexed from over 300 other journals.
- Subject index lists each article alphabetically according to each *important word* in its title.
- Subject index also lists articles alphabetically according to *key words* not appearing in the title.
- Author index lists each article under the name of each author.
- Reasonable prices:

IMS/ASA Members	—\$15
Other individuals	—\$20
Other institutions	—\$40

Published jointly by the Institute of Mathematical Statistics and the American Statistical Association. Volumes 2-10 are available now at the above prices. Publication of Volume 11 (1985) is expected late in 1986. Orders for Volume 11 are now being accepted at the above prices, with shipping upon availability. Please specify applicable rate and volume number(s) desired. Order prepaid from:

IMS Business Office
3401 Investment Blvd. #7
Hayward, CA 94545 (USA)

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.

4 ZONAL POLYNOMIALS

by Akimichi Takemura

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

5 INEQUALITIES IN STATISTICS AND PROBABILITY

edited by Y.L. Tong

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

6 THE LIKELIHOOD PRINCIPLE

by James Berger and Robert Wolpert

A comprehensive presentation and criticism of the likelihood principle and its generalizations.

This book provides a non-technical development of the likelihood principle with attention to some of its surprising implications for such areas as randomization analysis, censoring, significance testing, and sequential analysis. The authors also discuss generalizations and implementations of the likelihood principle.

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

& ADDITIONAL TITLES

Previously published: Volume 1, *Essays on the Prediction Process* by Frank Knight (\$15/members \$9); Volume 2, *Survival Analysis* edited by John Crowley and Richard A. Johnson (\$25/members \$15); Volume 3, *Empirical Processes* by Peter Gaëssler (\$20/members \$12). Forthcoming: *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 enrollment (eligible for 20% prepublication discounts from list prices) should be sent to

Institute of Mathematical Statistics
3401 Investment Blvd., #7
Hayward, CA 94545 (USA)

The Annals of Statistics

Vol. 14

March 1986

No. 1

Special invited paper

On the consistency of Bayes estimates	PERSI DIACONIS AND DAVID FREEDMAN
Discussion	ANDREW R. BARRON
Discussion	JAMES BERGER
Discussion	MURRAY K. CLAYTON
Discussion	A. P. DAWID
Discussion	KJELL A. DOKSUM AND ALBERT Y. LO
Discussion	HANI DOSS
Discussion	J. A. HARTIGAN
Discussion	NILS L. HJORT
Discussion	WILLIAM S. KRASKER AND JOHN W. PRATT
Discussion	L. LE CAM
Discussion	DENNIS V. LINDLEY
Rejoinder	P. DIACONIS AND D. FREEDMAN

Articles

On inconsistent Bayes estimates of location	P. DIACONIS AND D. FREEDMAN
Theory of partial likelihood	WING HUNG WONG
Exponential family mixture models (with least-squares estimators)	BRUCE G. LINDSAY
Gaussian Markov distributions over finite graphs	T. P. SPEED AND H. KIIVERI
Simulated power functions	RUDOLF BERAN
Asymptotics for configural location estimators	STEPHAN MORGENTHALER
Minimax multiple shrinkage estimation	EDWARD I. GEORGE
Simultaneous estimation in the multiparameter gamma distribution under weighted quadratic losses	ANIRBAN DAS GUPTA
Admissibility and minimaxity results in the estimation problem of exponential quantiles	ANDREW L. RUKHIN
Estimation of survival curves from dependent censorship models via a generalized self-consistent property with nonparametric Bayesian estimation application	WEI-YANN TSAI
Rank tests for independence for bivariate censored data	DOROTA M. DABROWSKA
K-treatment comparisons with restricted randomization rules in clinical trials	L. J. WEI, R. T. SMYTHE AND R. L. SMITH
Finite stopping in sequential sampling without recall from a Dirichlet process	RONALD CHRISTENSEN
Bayesian multistage decision problems	JEFFREY A. WITMER
Optimal Properties of the Bechhofer-Kulkarni Bernoulli selection procedure	RADHIKA V. KULKARNI AND CHRISTOPHER JENNISON
Asymptotically efficient selection of the order by the criterion autoregressive transfer function	R. J. BHANSALI
Behaviour of third order terms in quadratic approximations of LR-statistics in multivariate generalized linear models	CHRISTIAN KREDLER
Finite sample properties and asymptotic efficiency of Monte Carlo tests	KARL-HEINZ JÖCKEL
Maximum asymptotic variances of trimmed means under asymmetric contamination	JOHN R. COLLINS
Pseudo maximum likelihood estimation: the asymptotic distribution	WILLIAM R. PARKE

Corrections

Adjustment by minimum discriminant information	SHELBY J. HABERMAN
Second order approximation to the risk of a sequential procedure	ADAM T. MARTINSEK
Adaptive estimators for simultaneous estimation of Poisson means	H. M. HUDSON

NEW IN 1986
First Issue - February

STATISTICAL SCIENCE

a review journal of the institute of mathematical statistics

EXECUTIVE EDITOR: **Morris H. DeGroot**, *Carnegie-Mellon University*

EDITORS: **David R. Brillinger**, *University of California, Berkeley*

J. A. Hartigan, *Yale University*

Paul Switzer, *Stanford University*

On the occasion of its fiftieth anniversary, the Institute of Mathematical Statistics announces publication of *Statistical Science*, a new quarterly review journal in statistics and probability. *Statistical Science* will present the full range of contemporary statistical thought at a modest technical level accessible to the broad community of practitioners, teachers, researchers, and students in statistics and probability.

Featuring in early issues

D.A. Freedman & W.C. Navidi, "Regression models for adjusting the 1980 census" with discussion by J.B. Kadane, E.P. Ericksen, A.P. Dempster, K.M. Wolter, A. Madansky, I.P. Fellegi, L.E. Moses, and G. Nathan

L. LeCam, "The central limit theorem around 1935" with discussion

B. Efron & R. Tibshirani, "The bootstrap method for assessing statistical accuracy" with discussion by J. A. Hartigan

R. A. Thisted, "Computing environments for data analysis" with discussion

P. C. Fishburn, "The axioms of subjective probability" with discussion

F. L. Bookstein, "Size and shape spaces for landmark data in two dimensions" with discussion by D. G. Kendall, N. Cressie, P. D. Sampson, G. Campbell, and C. Goodall

Interviews with David Blackwell, T. W. Anderson, Erich Lehmann, Persi Diaconis, and Charles Stein

- discussions of methodological and theoretical topics of current interest and importance,
- surveys of substantive research areas with promising statistical applications,
- evaluations of research papers in specific areas of statistics and probability,
- discussions of classic articles from the literature with commentary on their impact on contemporary thought and practice,
- comprehensive book reviews, and
- interviews with distinguished statisticians and probabilists.

Statistical Science joins the Institute's distinguished journals, *The Annals of Statistics* and *The Annals of Probability*, in February 1986 and is included as a privilege of membership. Nonmember subscriptions are available to individuals and organizations. All subscriptions to the *Annals* include a subscription to *Statistical Science* for 1986. For additional information on how to receive *Statistical Science*, please write to the IMS Business Office.

IMS Business Office
3401 Investment Boulevard #7
Hayward, California 94545 (USA)