

THE ANNALS of STATISTICS

ISSN (0090-5364)

AN OFFICIAL JOURNAL OF
THE INSTITUTE OF MATHEMATICAL STATISTICS

Invited Paper

Testing for independence in a two-way table: New interpretations of the chi-square statistic	PERSI DIACONIS AND BRADLEY EFRON	845
Discussion	NORMAN BRESLOW AND DIRK MOORE	875
Discussion	JAMES M. DICKEY	877
Discussion	STEPHEN E. FIENBERG	882
Discussion	I. J. GOOD	885
Discussion	LEO A. GOODMAN	887
Discussion	TOM LEONARD	893
Discussion	PETER MCCULLAGH AND DARYL PREGIBON	898
Discussion	DONALD A. PIERCE	901
Discussion	R. L. PLACKETT	903
Discussion	ROLF SUNDBERG	903
Rejoinder	PERSI DIACONIS AND BRADLEY EFRON	905

Articles

Using empirical partially Bayes inference for increased efficiency	BRUCE G. LINDSAY	914
Strong consistency of approximate maximum likelihood estimators with applications in nonparametrics	JANE-LING WANG	932
Consistency and asymptotic normality of the minimum logit chi-squared estimator when the number of design points is large	LINDA JUNE DAVIS	947
Consistent estimation in partially observed random walks	PETER GUTTORP AND ANDREW F. SIEGEL	958
Spline smoothing and optimal rates of convergence in nonparametric regression models	PAUL SPECKMAN	970
Spline smoothing in regression models and asymptotic efficiency in L_2	MICHAEL NUSSBAUM	984
A sieve method for the spectral density	YUN-SHYONG CHOW AND ULF GRENANDER	998
An asymptotically efficient solution to the bandwidth problem of kernel density estimation	JAMES STEPHEN MARRON	1011
Averaged shifted histograms: Effective nonparametric density estimators in several dimensions	DAVID W. SCOTT	1024
A note on the L_1 consistency of variable kernel estimates	LUC DEVROYE	1041
Kernel estimates of the tail index of a distribution	SÁNDOR CSÖRGŐ, PAUL DEHEUVELS, AND DAVID MASON	1050
Minimax variance M-estimators in ϵ -contamination models	JOHN R. COLLINS AND DOUGLAS P. WIENS	1078
Estimation of a symmetric distribution	SHAW-HWA LO	1097
Estimating a quantile of a symmetric distribution	ARTHUR COHEN, SHAW-HWA LO, AND KESAR SINGH	1114
A Bayesian nonparametric sequential test for the mean of a population	MURRAY K. CLAYTON	1129
Sobolev tests for independence of directions	P. E. JUPP AND B. D. SPURR	1140
Linear serial rank tests for randomness against ARMA alternatives	MARC HALLIN, JEAN-FRANCOIS INGENBLEEK, AND MADAN L. PURI	1156
Nonnull and optimality robustness of some tests	TAKEAKI KARIYA AND BIMAL KUMAR SINHA	1182
Modeling expert judgments for Bayesian updating	CHRISTIAN GENEST AND MARK J. SCHERVISH	1198

continues on back cover

Vol. 13, No. 3—September 1985
50th Anniversary Year