

THE ANNALS of MATHEMATICAL STATISTICS

FOUNDED AND EDITED BY H. C. CARVER, 1930-1938
EDITED BY S. S. WILKS, 1938-1949

THE OFFICIAL JOURNAL OF THE INSTITUTE
OF MATHEMATICAL STATISTICS

Contents

	PAGE
On the comparison of two empirical distribution functions.....	LAJOS TÁKACS 1157
Factorial association schemes with applications to the construction of multidimensional partially balanced designs.....	J. N. SRIVASTAVA AND D. A. ANDERSON 1167
A note on the existence of quantitative probability.....	TERRENCE FINE 1182
Confidence intervals for linear functions of the normal mean and variance	CHARLES E. LAND 1187
Non-local asymptotic optimality of appropriate likelihood ratio tests..	L. D. BROWN 1206
The Bernstein-von Mises theorem for Markov processes	J. BORWANKER, G. KALLIANPUR AND B. L. S. PRAKASA RAO 1241
Noncentral distribution of Wilks' statistic in MANOVA.....	A. K. GUPTA 1254
The topology of distinguishability.....	LLOYD FISHER AND JOHN W. VAN NESS 1262
Model building for prediction in regression based upon repeated significance tests	W. J. KENNEDY AND T. A. BANCROFT 1273
On weak convergence of stochastic processes with multidimensional time parameter	GEORG NEUHAUS 1285
Some asymptotic results in a model of population growth, II. Positive recurrent chains	BURTON SINGER 1296
Partially balanced weighing designs with two association classes	K. V. SURYANARAYANA 1316
A characterization of invariant loss functions.....	ROBERT G. STAUDTE, JR. 1322
Nonparametric estimate of regression coefficients.....	JANA JURECKOVA 1328
Sequential discrimination with likelihood ratios.....	CHARLES YARBROUGH 1339
On the asymptotic optimality of spectral analysis for testing hypotheses about time series.....	W. S. LIGGETT, JR. 1348
On a class of bivariate distributions following a certain stochastic structure	CHANDAN K. MUSTAFI 1359
The equivalence of functional central limit theorems for counting processes and associated partial sums.....	DONALD L. IGLEHART AND WARD WHITT 1372
Formal Bayes estimation with application to a random effects model	STEPHEN PORTNOY 1379
On fixed-width confidence bounds for regression parameters....	M. S. SRIVASTAVA 1403
On obtaining large-sample tests from asymptotically normal estimators	T. W. F. STROUD 1412

Continued on back cover

Vol. 42, No. 4—August 1971