

TRABAJOS DE ESTADISTICA

Review published by "Instituto de Investigaciones Estadísticas" of the "Consejo Superior de Investigaciones Científicas." Madrid, Spain.

Vol. VI CONTENTS Cuad. II

H. BRENY	L'état actuel du problème de Behrens-Fisher.	la distribución en sus secciones o proyecciones.
P. G. MOORE	The mean successive difference in samples from an exponential population.	
NOTAS		
J. BEJAR	Estudio de un problema de distribución de mineral.	
F. AZORIN POCH	Un diseño factorial aplicado al estudio de la productividad.	
Crónica.	Bibliografía.	Cuestiones y Ejercicios

Vol. VI CONTENTS Cuad. III

L. A. SANTALO	Sobre la distribución de los tamaños de corpúsculos contenidos en un cuerpo a partir de la distribución en sus secciones o proyecciones.	
PROCOPIO ZOROA	Un problema de mínimo planteado en Arquitectura.	
JESUS DE LA SALA	Aportación al estudio de un método rápido de cálculo para la aplicación del método del Simplex al problema del transporte de Hitchcock.	
NOTAS		
A. DIAZ UNGRIA, A. CAMACHO Y S. RIOS	Análisis discriminante de dos muestras de indios venezolanos.	
ENRIQUE BLANCO	Conceptos operacionales de la inspección.	
JOSE ROMANI	La teoría de las colas aplicada a un problema de producción industrial.	
PROCOPIO ZOROA	El análisis operacional en la propaganda.	
Crónica.	Bibliografía.	Cuestiones y Ejercicios

For everything in connection with works, exchanges and subscription write to Professor Sixto Ríos, Instituto de Investigaciones Estadísticas of the Consejo Superior de Investigaciones Científicas (Serrano, 123). Madrid, Spain. The Review is composed of three fascicles published three times a year (about 350 pages), and its annual price is 100 pesetas for Spain and South America and \$4.00 U.S.A. for all other countries.

ESTADISTICA

Journal of the Inter American Statistical Institute

Volume XIV, No. 50 Contents March 1956

Address by Mr. Waldemar Lopes, Secretary General, National Statistical Council, Brazil, at the Opening of the III Session of COINS [June 3, 1955]—Discurso do Sr. Waldemar, Lopes, Secretário-Geral do Conselho Nacional de Estatística, Brasil, na Reunião Inicial da III Sessão da COINS [Junho 3, 1955]

What Price Pictorial Charts?	CALVIN F. SCHMID
Necesidades Estadísticas de los Programas de Vivienda de Interés Social	ANATOLE A. SOLOW
Métodos Analíticos para Determinar el Progreso de la Educación Primaria	GUSTAVO ZAKRZEWSKI
Reflexiones sobre Términos de Intercambio	DOUGLAS H. PARKS
Estadísticas del Trabajo: Objetivos, Alcance, Fuentes y Programa Mínimo	RODRIGO BOLAÑOS SÁNCHEZ
Actividades de la Escuela de Preparación Estadística de Venezuela, Dependiente de la Dirección General de Estadística, 1936-1955	J. M. RISQUEZ
The Measurement of Employment and Unemployment in the U. S. Current Population Survey	Special Advisory Committee on Employment Statistics
Núcleo de Estadísticos del Ecuador (NEDE)	MIGUEL BENITES B.
The 1960 World Population Census Programme—Its Aims and Progress—Programa del Censo de Población del Mundo de 1960—Sus Propósitos y Su Desarrollo	Statistical Office of the United Nations
Institute Affairs. Statistical News Publications.	

Published quarterly Annual subscription price \$3.00 (U. S.)

INTER AMERICAN STATISTICAL INSTITUTE

Pan American Union
Washington 6, D.C.

ECONOMETRICA

Journal of the Econometric Society
Contents of Vol. 24, No. 2 - April, 1956

- J. G. KEMENY, OSKAR MORGENSTERN, AND G. L. THOMPSON
A Generalization of the von Neumann Model of an Expanding Economy
- WERNER Z. HIRSCH Firm Progress Ratios
- JOHN C. HARSANYI Approaches to the Bargaining Problem Before and After the Theory of Games: A Critical Discussion of Zeuthen's, Hicks', and Nash's Theories
- R. DUNCAN LUCE AND E. W. ADAMS The Determination of Subjective Characteristic Functions in Games with Misperceived Payoff Functions
- HENRY TEICHER Identification of a Certain Stochastic Structure
- R. DUNCAN LUCE Semiordeers and a Theory of Utility Discrimination
- R. H. TIZARD Note on Initial Conditions in the Solution of Linear Differential Equations with Constant Coefficients

BOOK REVIEWS

- Studies in Econometric Method* (Hood and Koopmans, eds.) Review by Olav Reiersøl
- An International Economic System* (J. J. Polak) Review by John S. Chipman
- Approximations for Digital Computers* (Cecil Hastings, Jr., et al.) Review by Harry Goheen
- Short-Term Economic Forecasting (Studies in Income and Wealth Vol. 17)* (N.B.E.R.) Review by Ralph Turvey
- An Introduction to Stochastic Processes with Special Reference to Methods and Applications* (M. S. Bartlett). Review by J. Wolfowitz
- The Theory of Economic Dynamics* (M. Kalecki). Review by John S. Chipman
- Post-Keynesian Economics* (K. K. Kurihara, ed.) Review by Kazuo Midutani
- Studies in the Theory of Economic Expansion* (Erik Lundberg). Review by J. Tinbergen

Published Quarterly

Subscription rates available on request

The Econometric Society is an international society for the advancement of economic theory in its relation to statistics and mathematics.

Subscriptions to *Econometrica* and inquiries about the work of the Society and the procedure in applying for membership should be addressed to Richard Ruggles, Secretary, The Econometric Society, Box 1264, Yale University, New Haven, Connecticut.

BIOMETRIKA

Volume 43

Contents

Parts 1 and 2, June 1956

KENDALL, M. G. Studies in the history of probability and statistics. II. The beginnings of a probability calculus. BAILEY, N. T. J. On estimating the latent and infectious periods of measles. I. Families with two susceptibles only. DARWIN, J. H. The behaviour of an estimator for a simple birth and death process. BROADBENT, S. R. Examination of a quantum hypothesis based on a single set of data. GOOD, I. J. & TOULMIN, G. H. The number of new species, and the increase in population coverage, when a sample is increased. BARTHOLOMEW, D. J. A sequential test of randomness for events occurring in time or space. ANIS, A. A. On the moments of the maximum of partial sums of a finite number of independent normal variates. DAVID, H. A. On the application to statistics of an elementary theorem in probability. WISHART, J. χ^2 probabilities for large numbers of degrees of freedom. HALDANE, J. B. S. & MAYNARD SMITH, Sheila. The sampling distribution of a maximum-likelihood estimate. BARTON, D. E. & DAVID, F. N. Tests for randomness of points on a line. BOSE, R. C. Paired comparison designs for testing concordance between judges. PILLAI, K. C. S. On the distribution of the largest or the smallest root of a matrix in multivariate analysis. LAWLEY, D. N. Tests of significance for the latent roots of covariance and correlation matrices. WATSON, G. S. On the joint distribution of the circular serial correlation coefficients. DANIELS, H. E. The approximate distribution of serial correlation coefficients. JENKINS, G. M. Tests of hypotheses in the linear autoregressive model. II. Null distributions for higher order schemes: non-central distributions. WILLIAMS, R. M. The variance of the mean of systematic samples. GUEST, P. G. Grouping methods in the fitting of polynomials to unequally spaced observations. *Miscellaneous*—Contributions by D. E. BARTON, J. C. BUTCHER, B. I. HARLEY, M. J. R. HEALY, G. E. JAMES, W. H. TRICKETT & B. L. WELCH, C. L. MALLOWS, J. A. MCFADDEN, J. MEDHI, S. N. ROY & A.E. SARHAN, J. WISE, R. A. WOODING

Reviews

Corrigenda

The subscription price, payable in advance, is 45s. inland, 54s. export (per volume including postage). Cheques should be drawn to Biometrika and sent to "The Secretary, Biometrika Office, Department of Statistics, University College, London, W.C. 1." All foreign cheques must be in sterling and drawn on a bank having a London agency.

MATHEMATICAL REVIEWS

A journal containing reviews of the mathematical literature of the world, with full subject and author indices

Publication of this journal is sponsored by the American Mathematical Society, Mathematical Association of America, Institute of Mathematical Statistics, London Mathematical Society, Edinburgh Mathematical Society, Union Matematica Argentina, and others.

Subscriptions accepted to cover the calendar year only.
Issues appear monthly except July. \$20.00 per year.

Send subscription order or request for sample copy to

AMERICAN MATHEMATICAL SOCIETY
80 Waterman Street, Providence 6, Rhode Island

JOURNAL OF THE ROYAL STATISTICAL SOCIETY

Series B (Methodological)

Vol. XVII, No. 2, 1955

Some Statistical Methods Connected with Series of Events.....	D. R. COX (With Discussion)
Symposium on Linear Programming:	
An Outline of Linear Programming.....	S. VAJDA
On Minimizing a Convex Function Subject to Linear Inequalities.....	E. M. L. BEALE
A Contribution to the "Travelling-Salesman" Problem.....	G. MORTON AND A. H. LAND (With Discussion)
Statistical Concepts in their Relation to Reality.....	E. S. PEARSON
The Comparison of Means of Sets of Observations from Sections of Independent Stochastic Series.....	G. H. JOWETT
A Note on the Periodogram of the Beveridge Wheat Price Index.....	J. C. GOWER
Some Distribution and Moment Formulae for the Markov Chain.....	P. WHITTLE
Some Applications of Zero-one Processes.....	Z. A. LOMNICKI AND S. K. ZAREMBA
Waiting Time in Bulk Service Queues.....	F. DOWNTON
A Note on Equalizing the Mean Waiting Times of Successive Customers in a Finite Queue.....	NORMAN T. J. BAILEY
On the Weighted Combination of Significance Tests.....	I. J. GOOD
A Significance Test for the Difference in Efficiency between Two Predictors.....	M. J. R. HEALY
A Unified Theory of Finite Sampling.....	V. P. GODAMBE

The Royal Statistical Society, 21, Bentinck Street, London, W. 1
The Journal of the Royal Statistical Society is published in two series: Series A (General), four issues a year, 15s. each part, annual subscription £3.1s. post free; Series B (Methodological), two issues a year, 22s.6d. each part, annual subscription 45s.6d. post free.

The Royal Statistical Society, 21, Bentinck Street, London, W. 1

SANKHYĀ

The Indian Journal of Statistics
Edited by P. C. Mahalanobis

Vol. 16, Parts 1 & 2, 1955

The Maximisation of National Incomes J. B. S. HALDANE

The Approach of Operational Research To Planning In India
P. C. MAHALANOBIS

Indian Statistical Institute, Twenty-third Annual Report 1954-55

Corrigenda G. KALLIANPUR & C. RADHAKRISHNA RAO

ANNUAL SUBSCRIPTION: 30 rupees (\$10.00), 10 rupees (\$3.50) per issue.
BACK NUMBERS: 45 rupees (\$15.00) per volume; 12/8 rupees (\$4.50) per issue.
Subscriptions and orders for back numbers should be sent to

STATISTICAL PUBLISHING SOCIETY
204/1 Barrackpore Trunk Road Calcutta 35, India

SKANDINAVISK AKTUARIETIDSKRIFT

1955 - Parts 1 - 2

Contents

D. E. BARTON A Form of Neyman's Ψ_K^2 Test of Goodness of Fit Applicable to
Grouped and Discrete Data

B. M. BENNETT On the Cumulants of the Logarithmic Generalized Variance and
Variance Ratio

C.-O. SEGERDAHL When Does Ruin Occur in the Collective Theory of Risk?

ROBERT A. PORTER Operation Analysis: Experience and Concept

G. ARFWEDSON Research in Collective Risk Theory

K.-G. HAGSTROEM Insurance on a Risk Premium Basis

Översikt av utländska aktuarietidskrifter

De skandinaviske aktuarforeningers virksomhed i 1954

Annual subscription: \$5.00 per year

Inquiries and orders may be addressed to the Editor.

GRANHÄLLSVÄGEN 35, STOCKSUND, SWEDEN

THE INSTITUTE OF MATHEMATICAL STATISTICS

(Organized September 12, 1935)

OFFICERS FOR 1956

President:

David Blackwell, Department of Statistics, University of California, Berkeley, California

President-Elect:

Alexander M. Mood, General Analysis Corporation, 710 Wilshire Blvd., Santa Monica, California

Secretary:

G. E. Nicholson, Jr., Department of Statistics, University of North Carolina, Chapel Hill, North Carolina

Treasurer:

A. H. Bowker, Department of Statistics, Stanford University, Stanford, California

Editor:

T. E. Harris, The RAND Corporation, 1700 Main Street, Santa Monica, California

The purpose of the Institute of Mathematical Statistics is to encourage the development, dissemination, and application of mathematical statistics.

Membership dues including a subscription to the ANNALS OF MATHEMATICAL STATISTICS are \$10.00 per year for residents of the United States or Canada and \$5.00 per year for residents of other countries. There are special rates for students and for some other classes of members. Inquiries regarding membership in the Institute should be sent to the Secretary of the Institute.

(Continued from inside front cover)

mathematical formulae. The difference between capital and lower-case letters should be clearly shown; care should be taken to avoid confusion between such pairs as zero and the letter O, the numeral 1 and the letter I, numeral 1 used as superscript and prime ('), alpha and a, kappa and k, mu and u, nu and v, eta and n, etc. Subscripts or superscripts should be clearly below or above the line. Bars above groups of letters (e.g., $\overline{\log x}$) and underlined letters (e.g., \underline{x}) are difficult to print and should be avoided. Symbols are automatically italicized by the printer and should not be underlined on manuscripts. Boldface letters may be indicated by underlining with a wavy line on the manuscript; boldface subscripts and superscripts are not available. Complicated exponentials should be represented with the symbol exp. In writing square roots the fractional exponent is preferable to the radical sign. Fractions *in the body of the text* (as opposed to displayed expressions) and fractions occurring in the numerators or denominators of fractions are preferably written with the solidus; thus $(a + b)/(c + d)$ rather than $\frac{a + b}{c + d}$.

MEETINGS OF THE INSTITUTE

TENTATIVE SCHEDULE

ANNUAL MEETING—SEATTLE, WASHINGTON

August 20-24, 1956 (With American Mathematical Society and others)

MIDWESTERN REGIONAL MEETING—DETROIT, MICHIGAN

September 7-10, 1956 (With American Statistical Association and others)

(See special announcement in this issue concerning submission of Abstracts)