

JOURNAL OF APPLIED PROBABILITY

VOLUME 19 NUMBER 4 DECEMBER 1982



EDITOR-IN-CHIEF J. GANI

<https://doi.org/10.1017/S0021900200023330> Published online by Cambridge University Press

Journal of Applied Probability

This is an international journal published by the Applied Probability Trust in association with the London Mathematical Society; it contains research papers and notes on applications of Probability Theory to the biological, physical, social and technological sciences. An annual volume of approximately 800 pages will be published in four numbers appearing in March, June, September and December.

Submission of papers

Submissions to the *Journal* may be of two kinds:

(1) *research papers* not exceeding 20 printed pages;

(2) *short communications* of a few printed pages in the nature of notes of brief accounts of work in progress.

Review papers and *longer research papers* should be sent to *Advances in Applied Probability*, a companion journal. Authors are requested to consult the Notes for Contributors on the inside back cover.

Editor-in-Chief:

J. GANI *Department of Statistics, University of Kentucky, Lexington, KY 40506, U.S.A.*

Executive Editor:

MAVIS HITCHCOCK *Applied Probability Office, Department of Probability and Statistics, The University, Sheffield S3 7RH, England.*

Technical Editor:

KATHLEEN M. LYLE

Editors:

M. S. BARTLETT *Priory Orchard, Priory Avenue, Totnes, Devon TQ9 5HR, England.*
R. BELLMAN *Department of Electrical Engineering, University of Southern California, Los Angeles, California 90007, U.S.A.*

D. R. COX *Department of Mathematics, Imperial College of Science and Technology, London SW7 5HH, England.*

A. DVORETZKY *Department of Mathematics, Hebrew University of Jerusalem, Israel.*
P. D. FINCH *Department of Mathematics, Monash University, P.O. Box 92, Clayton, Victoria 3168, Australia.*

J. HAJNAL *Department of Statistics, London School of Economics, Houghton St., London WC2A 2AE, England.*

J. M. HAMMERSLEY *Institute of Statistics, Oxford University, Oxford OX1 3UL, England.*
E. J. HANNAN *Department of Statistics, Australian National University, P.O. Box 4, Canberra, Australia, 2600.*

S. KARLIN *Department of Mathematics, Stanford University, Stanford, CA 94305, U.S.A.*

D. G. KENDALL *Statistical Laboratory, Cambridge University, Cambridge CB2 1SB, England.*
M. KIMURA *National Institute of Genetics, Yata I, III, Mishima-shi, Shizuoka-ken, Japan.*
P. A. P. MORAN *Department of Statistics, Australian National University, P.O. Box 4, Canberra, Australia, 2600.*

J. E. MOYAL *8 Teague Street, Cook, ACT 2614, Australia.*

M. F. NEUTS *Department of Mathematical Sciences, 501 Kirkbride Office Building, University of Delaware, Newark DE 19711, U.S.A.*

YU. V. PROKHOROV *Mathematical Institute of the Academy of Sciences of the U.S.S.R., 1st-Academichesky Proezd 28, Moscow, B-333, U.S.S.R.*

G. E. H. REUTER *Department of Mathematics, Imperial College of Science and Technology, London SW7 5HH, England.*

L. SCHMETTERER *Mathematical Institute of the University of Vienna, Strudlhofgasse 4, Vienna IX, Austria.*

L. TAKÁCS *Department of Mathematics, Case Western Reserve University, University Circle, Cleveland, Ohio 44106, U.S.A.*

G. S. WATSON *Department of Statistics, Princeton University, Fine Hall, P.O. Box 708, Princeton, N.J. 08540, U.S.A.*

P. WHITTLE *Statistical Laboratory, Cambridge University, Cambridge CB2 1SB, England.*