Subscription rates

Subscription rates (post free) for the 1982 volume of Advances are as follows:

US\$108.00, \$A93.00, £45.00 for libraries and institutions; US\$36.00, \$A31.00, £15.00 for individuals belonging to a recognised scientific society.

All enquiries about Advances, as well as subscriptions, should be sent to the Executive Editor, Miss M. Hitchcock, Department of Probability and Statistics, The University, Sheffield S3 7RH, England. The price of back numbers varies from volume to volume, and enquiries should be sent to the Executive Editor. Cheques, money orders, etc., should be made out to **Applied Probability**; cheques on U.S., U.K. and Australian banks will be acceptable.

Notes for contributors

Submission of papers.

It is a condition of publication in Advances in Applied Probability that papers shall not previously have appeared elsewhere, and will not be reprinted without the written permission of the Trust. It is the general policy of Advances not to accept for publication papers which cannot appear in print within 15 months of the date of receipt of the final version. Authors will receive 50 reprints of their papers free, and joint authors a proportional share of this number. Additional reprints will be provided at cost.

Papers should be written in English or French; papers in other languages may be accepted by the Editors, but will appear (subject to the author's agreement) in English or French translation in Advances. Scripts should be typewritten, using double spacing, and at least one copy should be on one side of the paper only. Each paper should be accompanied by

(i) a short abstract of approximately 4-10 lines giving a non-mathematical description of the subject matter and results;

(ii) a list of keywords detailing the contents for the purpose of computerised information retrieval.

Authors are advised to consult *The Author's Guide to the Applied Probability Journals* when preparing papers for submission. A copy of this guide may be obtained on application to the Applied Probability Office.

Authors are requested to send three copies of their submissions to the Applied Probability office in Sheffield. If authors consider their papers are in the particular field of expertise of one of the editors listed on the inside front cover, they may submit two copies of the paper to the editor concerned. One copy, with a copy of the covering letter, should then be sent to the Applied Probability office in Sheffield so that complete records can be kept there. Authors overseas are asked to ensure that their submissions are sent by airmail. The Editor-in-Chief and the Applied Probability office are in direct contact by telex and full details of all papers submitted to Sheffield are available to Professor Gani in Lexington.

Copyright. The copyright of all published papers shall be vested in the Trust. When a paper is accepted for publication, the Trust requests the author(s) to sign a form assigning copyright to the Trust. Failure to do this promptly may delay or prevent publication.

The appearance of the code at the top of the first page of a paper in this journal indicates the Trust's consent that copies of the article may be made for personal or internal use by the copier or his specific clients. This consent is given on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., P.O. Box 765, Schenectady, New York 12301, U.S.A. for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying for general distribution, for advertising for promotional purposes, for creating new collective works, or for resale.

PRINTED IN NORTHERN IRELAND AT THE UNIVERSITIES PRESS (BELFAST) LTD.

Volume 14 Number 1

- 1 K. N. VENKATARAMAN. A time series approach to the study of the simple subcritical Galton–Watson process with immigration
- 21 D. S. FREED AND L. A. SHEPP. A Poisson process whose rate is a hidden Markov process
- 37 JACQUES-EDOUARD DIES. Hendricks libraries and Tsetlin piles
- 56 DORIT HOCHBAUM AND J. MICHAEL STEELE. Steinhaus's geometric location problem for random samples in the plane
- 68 D. GARY HARLOW AND S. LEIGH PHOENIX. Probability distributions for the strength of fibrous materials under local load sharing I: Two-level failure and edge effects
- 95 LUKE TIERNEY. Asymptotic bounds on the time to fatigue failure of bundles of fibers under local load sharing
- 122 HANS-JOACHIM LANGEN. Applying the method of phases in the optimization of queuing systems
- 143 SØREN ASMUSSEN. Conditioned limit theorems relating a random walk to its associate, with applications to risk reserve processes and the *GI/G/*1 queue
- 171 WARD WHITT. On the heavy-traffic limit theorem for $GI/G/\infty$ queues
- 191 PETER W. GLYNN. On the Markov property of the *GI/G/∞* Gaussian limit