

SUBSCRIPTION RATES

Subscription rates (post free) for the 1985 volume of *Advances* are as follows:

Subscribers in North, Central and South America, and Australia:

US\$99.00; \$A108.00; £69.00 for libraries and institutions;

US\$33.00; \$A36.00; £23.00 for individuals belonging to a recognised scientific society.

All other subscribers:

£57.00 for libraries and institutions;

£19.00 for individuals belonging to a recognised scientific society.

All enquiries about *Advances*, as well as other 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

Contributions published in *Advances* may be of six kinds:

(1) *review papers*; (2) *longer research papers* in applied probability, which may include expository material; (3) *expository papers* on branches of mathematics of interest to probabilists; (4) *papers outlining areas in the biological, physical, social and technological sciences* in which probability models can usefully be developed; (5) *papers in applied probability presented at conferences* which do not publish their proceedings; (6) *letters to the editor* on any appropriate topic in applied probability. (Note: Letters relating specifically to papers which have appeared in the *Journal of Applied Probability* will continue to be published in the *Journal*.)

Research papers not exceeding 20 printed pages and *short communications* are published in the *Journal of Applied Probability*. The editors may publish accepted papers in either journal, according to the space available, in order to meet the 15-month deadline in publication referred to below.

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 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.

For efficiency in processing, authors are requested to send three copies of all submissions to the Applied Probability Office in Sheffield, rather than to individual editors. Authors overseas are asked to ensure that their submissions are sent by airmail. The Editor-in-Chief and the Applied Probability Office are in regular contact and full details of all papers submitted are available to Professor Gani at the University of California at Santa Barbara.

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.

Authorisation to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by the Applied Probability Trust for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$00.50 per copy, plus .10 per page is paid directly to CCC, 21 Congress St., Salem, MA 01970, U.S.A. 0001-8678/85 \$00.50+.10.

- 683 USHIO SUMITA AND MASA AKI KIJIMA. The bivariate Laguerre transform and its applications: numerical exploration of bivariate processes
- 709 LOTHAR HEINRICH AND VOLKER SCHMIDT. Normal convergence of multidimensional shot noise and rates of this convergence
- 731 NORMAN KAPLAN AND THOMAS DARDEN. The behavior of the ratio of a small-noise Markov chain to its deterministic approximation
- 748 T. K. SHENG. The distance between two random points in plane regions
- 774 PETER WAKSMAN. Plane polygons and a conjecture of Blaschke's
- 794 CHARLES M. NEWMAN AND YOSEF RINOTT. Nearest neighbors and Voronoi volumes in high-dimensional point processes with various distance functions
- 810 JÜRGEN FRANKE. ARMA processes have maximal entropy among time series with prescribed autocovariances and impulse responses
- 841 DOMINIQUE PICARD. Testing and estimating change-points in time series
- 868 V. V. KALASHNIKOV AND S. T. RACHEV. Characterization problems in queueing and their stability
- 887 PER HOKSTAD. Relations for the workload of the $GI/G/s$ queue
- Letters to the Editor*
- 905 CHRIS A. H. KLAASSEN. Strong unimodality
- 908 D. J. GATES. Asymptotics of two integrals from optimization theory and geometric probability
- 911 GERARD LETAC. A characterization of the gamma distribution
- 913 Y. S. SATHE. Improved bounds for the variance of the busy period of the $M/G/\infty$ queue
- 915 Index