Advances in Applied Probability

The Editorial Board would like to encourage the submission to the *Advances* of review papers summarising and coordinating recent results in any of the fields of applied probability.

In addition to these review papers, *Advances* is also designed to be a medium of publication for (1) longer research papers in applied probability, which may include expository material, (2) expository papers on branches of mathematics of interest to probabilists, (3) papers outlining areas in the biological, physical, social and technological sciences in which probability models can be usefully developed, (4) papers in applied probability presented at conferences which do not publish their proceedings, and finally, (5) letters to the editor on any appropriate topic in applied probability.

In short, the main function of *Advances* is to define areas of recent progress and potential development in applied probability. As with the *Journal of Applied Probability*, *Advances* undertakes to publish papers accepted by the Editors within 15 months of their submission; letters to the editor will normally be published more rapidly.

Volume 18 No. 3 of *Advances* contains the following papers:

NOW AVAILABLE

ESSAYS IN TIME SERIES AND ALLIED PROCESSES

In January 1986 the Applied Probability Trust published a supplementary volume 23A of the *Journal of Applied Probability* (JAP) to mark the sixty-fifth birthday of Professor E. J. Hannan FAA, FASSA, an editor of the Journal since its inception in 1964. Entitled *Essays in Time Series and Allied Processes*, this book consists of papers relating to various aspects of time series, Professor Hannan's main area of research. The seven sections are devoted to: structure and general methods, estimation, hypothesis testing and distribution theory, non-linear and non-stationary systems, random fields and point processes, allied stochastic processes, and algorithms and computations.

This special volume, which is edited by J. Gani and M. B. Priestley, contains contributions from the following colleagues and students of Professor Hannan:

An Hong-Zhi	J. Henstridge	M. R. Osborne	G. K. Smyth
C. F. Ansley	S. M. Heravi	T. Ozaki	V. Solo
M. S. Bartlett	C. C. Heyde	E. Parzen	T. P. Speed
P. Bloomfield	Y. Hosoya	J. H. W. Penm	K. Tanaka
D. R. Brillinger	R. H. Jones	M. B. Priestley	R. D. Terrell
M. A. Cameron	K. Katsura	B. G. Quinn	P. J. Thomson
Chen Zhao-Guo	R. Kohn	J. Rissanen	P. Tin
M. Deistler	P. A. P. Moran	P. M. Robinson	J. G. Veitch
J. Durbin	D. F. Nicholls	M. Rosenblatt	G. S. Watson
J. Gani	Y. Ogata	R. Shibata	P. Whittle

A complete bibliography of Professor Hannan's publications from 1955 to 1984 is included.

Essays in Time Series and Allied Processes is in the usual JAP format (250 × 170 mm) with 437 pages, but with hard binding and an attractive dust jacket. The price is £30.00 (US$35.00; $A.43.00).

Orders, preferably accompanied by a remittance, should be sent to the Executive Editor, Applied Probability, Department of Probability and Statistics, The University, Sheffield S3 7RH, England. Payments must be in favour of 'Applied Probability': sterling cheques should be drawn on a British bank, US or Australian dollar cheques on a US or Australian bank respectively.

CONFERENCE ANNOUNCEMENT

The SIXTEENTH CONFERENCE ON STOCHASTIC PROCESSES AND THEIR APPLICATIONS of the Bernoulli Society of Mathematical Statistics and Probability will be held on 16–21 August 1987 at Stanford University, Stanford, California 94305–4022 USA.

For information contact either

> Donald L. Iglehart
> Department of Operations Research
> Stanford University
> Stanford, CA 94305–4022, USA

or

> The Bernoulli Society,
>   International Statistical Institute
> 428 Prinses Beatrixlaan
> P.O. Box 950
> 2270 AZ Voorburg, The Netherlands

ROLLO DAVIDSON TRUST

At a meeting of the Trustees on 10 March 1986, Rollo Davidson Prizes were awarded to

> PETER HALL of the Australian National University, Canberra, for his work on continuum percolation,

and to

> JEAN-FRANÇOIS LE GALL of the Université Pierre et Marie Curie, Paris, for his use of local-time arguments to obtain uniqueness theorems for stochastic differential equations, and for his work on the multiple points of brownian motion.

The first Rollo Davidson Prize was awarded in 1976, and sixteen prizes have now been awarded. The work of the Trust is supported by the gift of royalties, and by individual donations. Correspondence should be addressed to its Secretary:

> The Bursar, Churchill College, Cambridge CB3 0DS, England.

THE APPLIED PROBABILITY TRUST and
THE LONDON MATHEMATICAL SOCIETY announce

ANALYTIC AND GEOMETRIC STOCHASTICS

a publication to celebrate the sixty-fifth birthday of G. E. H. REUTER, who
for many years represented the London Mathematical Society as a Trustee of the
Applied Probability Trust. Edited by D. G. Kendall with the assistance of
J. F. C. Kingman and D. Williams, it will contain the following contributions:

D. G. KENDALL: Harry Reuter: An appreciation

D. J. ALDOUS: Classical convergence of triangular arrays, stable laws and
Schauder's fixed-point theorem

M. T. BARLOW and S. D. JACKA: Tracking a diffusion, and an application to.
weak convergence

N. H. BINGHAM: Extensions of the strong law

N. J. CUTLAND and W. S. KENDALL: A non-standard proof of one of David
Williams' splitting-time theorems

M. JACOBSEN: Co-optional times and invariant measures for transient Mar-
kov chains

D. G. KENDALL and HUI-LIN LE: Exact shape-densities for random triangles
in convex polygons

J. F. C. KINGMAN: The construction of infinite collections of random variables
with linear regressions

T. J. LYONS: The critical dimension at which quasi-every Brownian path is
self-avoiding

J. NEVEU: Erasing a branching tree

J. W. PITMAN and M. YOR: Some divergent integrals of Brownian motion

R. PYKE: Product Brownian measures

L. C. G. ROGERS and D. WILLIAMS: Construction and approximation of
transition matrix functions

Analytic and Geometric Stochastics will appear as a special issue of *Advances in
Applied Probability*, and will be issued free to current subscribers with Volume
18 Number 4 in December 1986. Copies can also be purchased from Applied
Probability, Department of Probability and Statistics, University of Sheffield,
Sheffield S3 7RH, England, price £10.00 (US$15.00) including postage and
packing. Orders should be accompanied by a remittance in favour of 'Applied
Probability'.

SUBSCRIPTION RATES

Subscription rates (post free) for the 1986 volume of the *Journal* are as follows:

Subscribers in North, Central and South America, and Australia:
 US$96.00; $A120.00; £81.00 for libraries and institutions;
 US$32.00; $A40.00; £27.00 for individuals belonging to a recognised scientific society.

All other subscribers:
 £66.00 for libraries and institutions;
 £22.00 for individuals belonging to a recognised scientific society.
 Members of the London Mathematical Society should apply direct to the Secretary of the Society for copies of the *Journal*.
 All enquiries about the *Journal*, 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

Papers published in the *Journal* are of two kinds:
 (1) *research papers* not exceeding 20 printed pages;
 (2) *short communications* of a few printed pages in the nature of notes or brief accounts of work in progress.
 Review papers, longer research papers and *letters to the editor* are published in *Advances in Applied Probability*, a companion journal. (Note: Letters relating specifically to papers which have appeared in the *Journal of Applied Probability* will continue to appear in the *Journal*.)
 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 the *Journal of 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 the *Journal* 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 the *Journal*. 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.

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