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in which probability models can be usefully developed, (4) papers in applied probability presented at conferences which do not publish their proceedings, and finally, (5) letters to the editor on any appropriate topic in applied probability.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.

A BIBLIOGRAPHY ON STOCHASTIC ORDERINGS

Stochastic orderings and related topics have been extensively studied and used in various disciplines such as probability, statistics, operations research, finance, economics, mathematical physics, etc. It is often difficult for researchers to keep track of the developments in the field, since results are published in many different journals in seemingly unrelated areas.

In order to make results more widely available, we plan to compile a bibliography of publications about stochastic orderings (in the broad sense) and applications. All scholars who have written papers in this area are kindly requested to send us reprints (or, at least, a list of their relevant papers). Of course, we should greatly appreciate receiving partial bibliographies, whenever they exist.

Suggestions and indications of researchers in the field are also welcome.

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The Trustees of the Rollo Davidson Trust give notice that they have awarded Rollo Davidson Prizes for 1989 as follows:

To Dr Geoffrey R. Grimmett (University of Bristol, UK), for his work on random fields, percolation theory, random graphs, and related topics.

To Dr Rémi Léandre (University of Besançon, France), for his contributions to Atiyah–Singer theory, and for his work on small-time asymptotics for the densities of degenerate diffusions.

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Members of the London Mathematical Society should apply direct to the Secretary of the Society for copies of the *Journal*.

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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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