

# Advances in Applied Probability

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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in which probability models can be usefully developed, (4) papers in applied probability presented at conferences which do not publish their proceedings, and finally, (5) letters to the editor on any appropriate topic in applied probability.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 23 No. 2 of *Advances* contains the following papers:

PETER DONNELLY AND PAUL JOYCE. Consistent ordered sampling distributions: characterization and convergence

I. L. DRYDEN AND K. V. MARDIA. General shape distributions in a plane

P. K. POLLETT. Invariant measures for  $Q$ -processes when  $Q$  is not regular

WILLIAM RISING. Applications of generalized inverses to Markov chains

KIYOMASA NARITA. The Smoluchowski–Kramers approximation for the stochastic Liénard equation with mean-field

KIYOMASA NARITA. Asymptotic behavior of velocity process in the Smoluchowski–Kramers approximation for stochastic differential equations

CHARLES KNESSL. On the transient behavior of the repairman problem

S. ZACHARY. On blocking in loss networks

HIDEAKI TAKAGI. Analysis of finite-capacity polling systems

AWI FEDERGRUEN AND KUT C. SO. Optimality of threshold policies in single-server queueing systems with server vacations

GUNTER RITTER AND ULRICH WACKER. The mean waiting time in a  $G/G/m/\infty$  queue with the LCFS-P service discipline

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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

Papers submitted to the *Journal of Applied Probability* are considered on the understanding that they have not been published previously and are not under consideration by another publication. Papers 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;

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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.

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