

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which probability models can be usefully developed, (4) papers in applied probability presented at conferences which do not publish their proceedings, and finally, (5) letters to the editor on any appropriate topic in applied probability.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

The Editor-in-Chief is J. Gani; the Coordinating Editors are N. H. Bingham, C. C. Heyde and M. F. Neuts; other editors are P. J. Brockwell, V. R. Cane, J. W. Cohen, E. J. Hannan, J. Keilson, D. G. Kendall, J. F. C. Kingman, K. Krickeberg, R. M. Loynes, K. R. Parthasarathy, C. A. B. Smith, and R. L. Tweedie. The Editorial Office of the *Advances* is in the Department of Probability and Statistics, The University, Sheffield S3 7RH, England.

Volume 20 No. 3 of *Advances* contains the following papers:

R. C. GRIFFITHS AND ANTHONY G. PAKES. An infinite-alleles version of the simple branching process

S. N. ETHIER AND THOMAS NAGYLAKI. Diffusion approximations of Markov chains with two time scales and applications to population genetics, II

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P. K. POLLETT. Reversibility, invariance and μ -invariance

J. L. JENSEN. Uniform saddlepoint approximations

DAVID HEATH AND ROBERT P. KERTZ. Leaving an interval in limited playing time

DEBASIS MITRA. Stochastic theory of a fluid model of producers and consumers coupled by a buffer

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(J. Gani, D. G. Kendall, M. F. Neuts)
2. The first quarter-century of the Applied Probability Trust
(Mavis Hitchcock, Kathleen M. Lyle)
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5. Concepts of coincidence and convergence
(A. D. Barbour, S. Karlin, R. M. Loynes)
6. The analysis of stochastic phenomena
(N. H. Bingham, Ron Engelen/Paul Thommassen/Wim Vervaat, J. Keilson/
M. Zachman, N. U. Prabhu, R. L. Tweedie, P. Whittle)
7. Stationary processes and time series
(E. J. Hannan/J. Rissanen, C. C. Heyde)
8. Random walks, graphs and networks
(J. W. Cohen, J. Gani, J. M. Hammersley, Lajos Takács)

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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.

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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.

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

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