

Subscription rates

Subscription rates for volume **49** (2017) of *Advances in Applied Probability* (AAP) are as follows (post free and online access at <http://cambridge.org/apr>). For libraries and institutions: US\$361.00, £233.00 (online only); US\$397.00, £256.00 (online & print). For individuals, US\$137.00, £88.00 (online & print). The subscription rates for volume **54** (2017) of *Journal of Applied Probability*, the companion publication, are the same; for individual subscribers that order both journals at the same time, the combined price is discounted by 10%. Please send all subscription renewals and enquiries to: subscriptions_newyork@cambridge.org in the Americas and journals@cambridge.org for the Rest of the World.

Notes for contributors

A submission to Applied Probability is considered as a submission to either *Journal of Applied Probability* (JAP) or *Advances in Applied Probability* (AAP). Longer papers are typically published in AAP, but the assignment of papers between the two journals is made by the Editor-in-Chief on an issue-by-issue basis. Short communications and letters specifically relating to papers appearing in either JAP or AAP are published in JAP.

Papers submitted to the Applied Probability journals are considered on the understanding that they have not been published previously and are not under consideration by another publication. Accepted papers will not be published elsewhere without the written permission of the Trust. Submitted papers should be in English. It is the author's responsibility to ensure an acceptable standard of language, and a paper failing to meet this requirement may go back to the author for rewriting before being sent out for review.

Papers should include: (i) a **short abstract** of 4–10 lines giving a non-mathematical description of the subject matter and results; (ii) a list of **keywords** detailing the contents; and (iii) a list of **classifications**, using the 2010 Mathematics Subject Classification scheme (<http://www.ams.org/msc/>). Letters to the Editor need not include these. To assist authors in writing papers in the Applied Probability style, they may use the L^AT_EX class file `aptpub.cls`, available from <http://www.appliedprobability.org/>. Use of this class file is not a condition of submission, but will considerably increase the speed at which papers are processed.

Papers should be submitted as portable document format (PDF) files, not exceeding 1 Mb, to the email address submissions_japaap@sheffield.ac.uk. All submissions will be acknowledged on receipt.

Copyright

The copyright of all published papers is vested in the Applied Probability Trust. When a paper is accepted for publication, the Trust asks the authors to assign copyright by signing a form in which the terms of copyright are listed. 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 corresponding processing and royalty fees (see <http://www.copyright.com>) are paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923, USA. 0001–8678/17

PRINTED IN THE UK AT BELL AND BAIN LTD



MIX
Paper from
responsible sources
FSC® C007785

Volume 49 **Number 1**

- 1 CHRISTOPH HOFER-TEMMELE. Shearer's point process, the hard-sphere model, and a continuum Lovász local lemma
- 24 ALEXANDROS BESKOS, DAN CRISAN, AJAY JASRA, KENGO KAMATANI AND YAN ZHOU. A stable particle filter for a class of high-dimensional state-space models
- 49 ANSHUI LI AND TOBIAS MÜLLER. On the treewidth of random geometric graphs and percolated grids
- 61 A. L. STOLYAR. Large-scale heterogeneous service systems with general packing constraints
- 84 PIERRE HODARA AND EVA LÖCHERBACH. Hawkes processes with variable length memory and an infinite number of components
- 108 HARRY CRANE. Generalized Markov branching trees
- 134 I. PAPASTATHOPOULOS, K. STROKORB, J. A. TAWN AND A. BUTLER. Extreme events of Markov chains
- 162 CHANG-SONG DENG, RENÉ L. SCHILLING AND YAN-HONG SONG. Subgeometric rates of convergence for Markov processes under subordination
- 182 MASAKIYO MIYAZAWA. A unified approach for large queue asymptotics in a heterogeneous multiserver queue
- 221 FLORIN AVRAM AND ANDREEA MINCA. On the central management of risk networks
- 238 SÖREN CHRISTENSEN AND PAAVO SALMINEN. Impulse control and expected suprema
- 258 P. ALONSO-RUIZ AND E. SPODAREV. Estimation of entropy for Poisson marked point processes
- 279 REBEKKA BRINK-SPALINK AND CHARLINE SMADI. Genealogies of two linked neutral loci after a selective sweep in a large population of stochastically varying size