

# THE ANNALS *of* APPLIED PROBABILITY

*AN OFFICIAL JOURNAL OF THE*  
INSTITUTE OF MATHEMATICAL STATISTICS

## Articles

- Positive recurrence of piecewise Ornstein–Uhlenbeck processes and common quadratic Lyapunov functions . . . . . A. B. DIEKER AND XUEFENG GAO 1291
- Fluid limits to analyze long-term flow rates of a stochastic network with ingress discarding . . . . . JOHN MUSACCHIO AND JEAN WALRAND 1318
- On the closure in the Emery topology of semimartingale wealth-process sets  
CONSTANTINOS KARDARAS 1355
- Upper bound on the rate of adaptation in an asexual population . . . . . MICHAEL KELLY 1377
- Randomized urn models revisited using stochastic approximation  
SOPHIE LARUELLE AND GILLES PAGÈS 1409
- Dynamics of cancer recurrence . . . . . JASMINE FOO AND KEVIN LEDER 1437
- The cut-tree of large Galton–Watson trees and the Brownian CRT  
JEAN BERTOIN AND GRÉGORIE MIERMONT 1469
- A trajectorial interpretation of Doob’s martingale inequalities  
B. ACCIAIO, M. BEIGLBÖCK, F. PENKNER, W. SCHACHERMAYER AND J. TEMME 1494
- Convolution equivalent Lévy processes and first passage times . . . . . PHILIP S. GRIFFIN 1506
- Quantitative version of the Kipnis–Varadhan theorem and Monte Carlo approximation of homogenized coefficients . . . . . ANTOINE GLORIA AND  
JEAN-CHRISTOPHE MOURRAT 1544
- Mimicking an Itô process by a solution of a stochastic differential equation  
GERARD BRUNICK AND STEVEN SHREVE 1584
- Kalikow-type decomposition for multicolor infinite range particle systems  
A. GALVES, N. L. GARCIA, E. LÖCHERBACH AND E. ORLANDI 1629
- Weak approximations for Wiener functionals . . . . . DORIVAL LEÃO AND  
ALBERTO OHASHI 1660
- Analysis of casino shelf shuffling machines  
PERSI DIACONIS, JASON FULMAN AND SUSAN HOLMES 1692