

# THE ANNALS of APPLIED PROBABILITY

AN OFFICIAL JOURNAL OF THE  
INSTITUTE OF MATHEMATICAL STATISTICS

## Articles

- High order recombination and an application to cubature on Wiener space  
C. LITTERER AND T. LYONS 1301
- Effect of scale on long-range random graphs and chromosomal inversions  
NATHANAËL BERESTYCKI AND RICHARD PYMAR 1328
- Asymptotic shape for the contact process in random environment  
OLIVIER GARET AND RÉGINE MARCHAND 1362
- Path decomposition of ruinous behavior for a general Lévy insurance risk process  
PHILIP S. GRIFFIN AND ROSS A. MALLER 1411
- Achlioptas process phase transitions are continuous  
OLIVER RIORDAN AND LUTZ WARNKE 1450
- Outperforming the market portfolio with a given probability  
ERHAN BAYRAKTAR, YU-JUI HUANG AND QINGSHUO SONG 1465
- Ergodicity and stability of the conditional distributions of nondegenerate  
Markov chains . . . . . XIN THOMSON TONG AND RAMON VAN HANDEL 1495
- Small-time asymptotics for fast mean-reverting stochastic volatility models  
JIN FENG, JEAN-PIERRE FOUQUE AND ROHINI KUMAR 1541
- Robust maximization of asymptotic growth  
CONSTANTINOS KARDARAS AND SCOTT ROBERTSON 1576
- Strong convergence of an explicit numerical method for SDEs with nonglobally Lipschitz  
continuous coefficients . . . . . MARTIN HUTZENTHALER, ARNULF JENTZEN  
AND PETER E. KLOEDEN 1611
- Balanced allocation: Memory performance tradeoffs  
ITAI BENJAMINI AND YURY MAKARYCHEV 1642
- Existence of random gradient states . . . . . CODINA COTAR AND CHRISTOF KÜLSKE 1650
- Poissonian statistics in the extremal process of branching Brownian motion  
LOUIS-PIERRE ARGUIN, ANTON BOVIER AND NICOLA KISTLER 1693
- Total variation bound for Kac's random walk . . . . . YUNJIANG JIANG 1712
- Continuous-time vertex reinforced jump processes on Galton–Watson trees  
ANNE-LAURE BASDEVANT AND ARVIND SINGH 1728