THE ANNALS

of

APPLIED PROBABILITY

AN OFFICIAL JOURNAL OF THE INSTITUTE OF MATHEMATICAL STATISTICS

Articles

A diffusion process associated with Fréchet means HUILING LE	3033
Isotropic Gaussian random fields on the sphere: Regularity, fast simulation and stochastic partial differential equations	3047
A probabilistic interpretation of the parametrix method VLAD BALLY AND ARTURO KOHATSU-HIGA	3095
Extinction window of mean field branching annihilating random walk IDAN PERL, ARNAB SEN AND ARIEL YADIN	3139
Scaling limits of spatial compartment models for chemical reaction networks Peter Pfaffelhuber and Lea Popovic	3162
Steady-state simulation of reflected Brownian motion and related stochastic networks JOSE BLANCHET AND XINYUN CHEN	3209
Weak reflection principle for Lévy processes	
ERHAN BAYRAKTAR AND SERGEY NADTOCHIY	3251
A geometric Achlioptas process	3295
On the topology of random complexes built over stationary point processes D. YOGESHWARAN AND ROBERT J. ADLER	3338
Diffusion limits for shortest remaining processing time queues under nonstandard spatial scaling	3381
Robustness of the <i>N</i> -CUSUM stopping rule in a Wiener disorder problem HONGZHONG ZHANG, NEOFYTOS RODOSTHENOUS AND OLYMPIA HADJILIADIS	3405
Coexistence of grass, saplings and trees in the Staver-Levin forest model RICK DURRETT AND YUAN ZHANG	3434
Community detection in sparse random networks NICOLAS VERZELEN AND ERY ARIAS-CASTRO	3465
Ergodic control of multi-class $M/M/N + M$ queues in the Halfin-Whitt regime ARI ARAPOSTATHIS, ANUP BISWAS AND GUODONG PANG	3511
Asymptotic distribution of the maximum interpoint distance in a sample of random vectors with a spherically symmetric distribution SREENIVASA RAO JAMMALAMADAKA AND SVANTE JANSON	3571
Stability of adversarial Markov chains, with an application to adaptive MCMC algorithms RADU V. CRAIU, LAWRENCE GRAY, KRZYSZTOF ŁATUSZYŃSKI, NEAL MADRAS, GARETH O. ROBERTS AND JEFFREY S. ROSENTHAL	3592
Strong limit of the extreme eigenvalues of a symmetrized auto-cross covariance matrix CHEN WANG, BAISUO JIN, Z. D. BAI, K. KRISHNAN NAIR AND MATTHEW HARDING	