## BERNOULLI

Official Journal of the Bernoulli Society for Mathematical Statistics and Probability

Volume Twenty Two Number One February 2016 ISSN: 1350-7265

## **CONTENTS**

Papers	
DICKER, L.H.	1
Ridge regression and asymptotic minimax estimation over spheres of growing dimension	
DRTON, M. and XIAO, H.	38
Wald tests of singular hypotheses	
OTTOBRE, M., PILLAI, N.S., PINSKI, F.J. and STUART, A.M.	60
A function space HMC algorithm with second order Langevin diffusion limit	
KABLUCHKO, Z. and STOEV, S.	107
Stochastic integral representations and classification of sum- and max-infinitely divisible processes	
DATTNER, I., REISS, M. and TRABS, M.	143
Adaptive quantile estimation in deconvolution with unknown error distribution	
GASSIAT, E. and ROUSSEAU, J.	193
Nonparametric finite translation hidden Markov models and extensions	
GUILLOTTE, S. and PERRON, F.	213
Polynomial Pickands functions	
LAURENT, B., MARTEAU, C. and MAUGIS-RABUSSEAU, C.	242
Non-asymptotic detection of two-component mixtures with unknown means	
BARRERA, D. and PELIGRAD, M.	275
Quenched limit theorems for Fourier transforms and periodogram	
DELATTRE, S. and ROQUAIN, E.	302
On empirical distribution function of high-dimensional Gaussian vector components with an application to multiple testing	
LERASLE, M. and TAKAHASHI, D.Y.	325
Sharp oracle inequalities and slope heuristic for specification probabilities estimation	
in discrete random fields	
LAHIRI, S.N. and ROBINSON, P.M.	345
Central limit theorems for long range dependent spatial linear processes	
VIITASAARI, L.	376
Integral representation of random variables with respect to Gaussian processes	
(continued on the inside co	over)

The papers published in Bernoulli are indexed or abstracted in *Current Index to Statistics*, *Mathematical Reviews*, *Statistical Theory and Method Abstracts-Zentralblatt (STMA-Z)*, and *Zentralblatt für Mathematik* (also avalaible on the *MATH via STN* database and *Compact MATH CD-ROM*). A list of forthcoming papers can be found online at http://www.bernoulli-society.org/index.php/publications/bernoulli-journal/bernoulli-journal-papers

## **BERNOULLI**

Official Journal of the Bernoulli Society for Mathematical Statistics and Probability

Volume Twenty Two Number One February 2016 ISSN: 1350-7265

## **CONTENTS**

(Continued)

Papers Papers	
SHEN, W. and GHOSAL, S.	396
Adaptive Bayesian density regression for high-dimensional data	
KUROKI, M.	421
Equivalence between direct and indirect effects with different sets of intermediate variables and covariates	
GULISASHVILI, A. and TANKOV, P.	444
Tail behavior of sums and differences of log-normal random variables	
WHITELEY, N., LEE, A. and HEINE, K.	494
On the role of interaction in sequential Monte Carlo algorithms	
GOBET, E. and TURKEDJIEV, P.	530
Approximation of backward stochastic differential equations using Malliavin weights and	
least-squares regression	
KHMALADZE, E.	563
Unitary transformations, empirical processes and distribution free testing	
HIROSE, Y.	589
On differentiability of implicitly defined function in semi-parametric profile likelihood	
estimation	
KUJALA, J.V.	615
Asymptotic optimality of myopic information-based strategies for Bayesian adaptive	
estimation	