

# THE ANNALS *of* STATISTICS

AN OFFICIAL JOURNAL OF THE  
INSTITUTE OF MATHEMATICAL STATISTICS

## Articles

Nonlinear manifold representations for functional data DONG CHEN AND HANS-GEORG MÜLLER	1
Sequential monitoring with conditional randomization tests VICTORIA PLAMADEALA AND WILLIAM F. ROSENBERGER	30
Likelihood based inference for current status data on a grid: A boundary phenomenon and an adaptive inference procedure RUNLONG TANG, MOULINATH BANERJEE AND MICHAEL R. KOSOROK	45
UPS delivers optimal phase diagram in high-dimensional variable selection PENGSHENG JI AND JIASHUN JIN	73
Goodness of fit tests for a class of Markov random field models MARK S. KAISER, SOUMENDRA N. LAHIRI AND DANIEL J. NORDMAN	104
Nonparametric regression with homogeneous group testing data AURORE DELAIGLE AND PETER HALL	131
Large-sample study of the kernel density estimators under multiplicative censoring MASOUD ASGHARIAN, MARCO CARONE AND VAHID FAKOOR	159
$T$ -optimal designs for discrimination between two polynomial models HOLGER DETTE, VIATCHESLAV B. MELAS AND PETR SHPILEV	188
The semiparametric Bernstein–von Mises theorem . . . P. J. BICKEL AND B. J. K. KLEIJN	206
Geometry of maximum likelihood estimation in Gaussian graphical models CAROLINE UHLER	238
Some asymptotic results of Gaussian random fields with varying mean functions and the associated processes . . . . . JINGCHEN LIU AND GONGJUN XU	262
Learning high-dimensional directed acyclic graphs with latent and selection variables DIEGO COLOMBO, MARLOES H. MAATHUIS, MARKUS KALISCH AND THOMAS S. RICHARDSON	294
Methodology and theory for partial least squares applied to functional data AURORE DELAIGLE AND PETER HALL	322
Estimating sufficient reductions of the predictors in abundant high-dimensional regressions R. DENNIS COOK, LILIANA FORZANI AND ADAM J. ROTHMAN	353
Optimal rates of convergence for convex set estimation from support functions ADITYANAND GUNTUBOYINA	385
Detection of correlations ÉRY ARIAS-CASTRO, SÉBASTIEN BUBECK AND GÁBOR LUGOSI	412
Statistical analysis of factor models of high dimension . . . . . JUSHAN BAI AND KUNPENG LI	436
Covariance matrix estimation for stationary time series . . . . . HAN XIAO AND WEI BIAO WU	466
Simultaneous confidence bands for Yule–Walker estimators and order selection MORITZ JIRAK	494
Q-learning with censored data . . . . . YAIR GOLDBERG AND MICHAEL R. KOSOROK	529
Proper local scoring rules MATTHEW PARRY, A. PHILIP DAWID AND STEFFEN LAURITZEN	561
Proper local scoring rules on discrete sample spaces A. PHILIP DAWID, STEFFEN LAURITZEN AND MATTHEW PARRY	593
Local proper scoring rules of order two . . . . . WERNER EHM AND TILMANN GNEITING	609