THE ANNALS of STATISTICS

AN OFFICIAL JOURNAL OF THE INSTITUTE OF MATHEMATICAL STATISTICS

Articles	
Variable selection with Hamming loss CRISTINA BUTUCEA, MOHAMED NDAOUD, NATALIA A. STEPANOVA AND ALEXANDRE B. TSYBAKOV Randomization-based causal inference from split-plot designs ANQI ZHAO, PENG DING,	1837
RAHUL MUKERJEE AND TIRTHANKAR DASGUPTA	1876
A new perspective on robust <i>M</i> -estimation: Finite sample theory and applications to dependence-adjusted multiple testing WEN-XIN ZHOU, KOUSHIKI BOSE, JIANQING FAN AND HAN LIU	1904
Robust covariance and scatter matrix estimation under Huber's contamination model MENGJIE CHEN, CHAO GAO AND ZHAO REN	1932
Empirical best prediction under a nested error model with log transformation ISABEL MOLINA AND NIRIAN MARTÍN	1961
Backward nested descriptors asymptotics with inference on stem cell differentiation Stephan F. Huckemann and Benjamin Eltzner	
Change-point detection in multinomial data with a large number of categories GUANGHUI WANG, CHANGLIANG ZOU AND GUOSHENG YIN	2020
Local asymptotic normality property for fractional Gaussian noise under high-frequency observations ALEXANDRE BROUSTE AND MASAAKI FUKASAWA	2045
Global testing against sparse alternatives under Ising models RAJARSHI MUKHERJEE, SUMIT MUKHERJEE AND MING YUAN	2062
Principal component analysis for second-order stationary vector time series JINYUAN CHANG, BIN GUO AND QIWEI YAO	2094
Estimation of a monotone density in s-sample biased sampling models KWUN CHUEN GARY CHAN, HOK KAN LING, TONY SIT AND SHEUNG CHI PHILLIP YAM	2125
Community detection in degree-corrected block modelsCHAO GAO, ZONGMING MA, ANDERSON Y. ZHANG AND HARRISON H. ZHOU	2153
CLT for largest eigenvalues and unit root testing for high-dimensional nonstationary time series	2186
Smooth backfitting for errors-in-variables additive models Kyunghee Han and Byeong U. Park	2216
Unifying Markov properties for graphical models STEFFEN LAURITZEN AND KAYVAN SADEGHI	2251
Adaptation in log-concave density estimation Arlene K. H. Kim, Adityanand Guntuboyina and Richard J. Samworth	
Weak convergence of a pseudo maximum likelihood estimator for the extremal index BETINA BERGHAUS AND AXEL BÜCHER	
Semiparametric efficiency bounds for high-dimensional models JANA JANKOVÁ AND SARA VAN DE GEER	
Limit theorems for eigenvectors of the normalized Laplacian for random graphs MINH TANG AND CAREY E. PRIEBE	
Optimality and sub-optimality of PCA I: Spiked random matrix models AMELIA PERRY, ALEXANDER S. WEIN, AFONSO S. BANDEIRA AND ANKUR MOITRA	
On the exponentially weighted aggregate with the Laplace prior ARNAK S. DALALYAN, EDWIN GRAPPIN AND QUENTIN PARIS	2452
Goodness-of-fit testing of error distribution in linear measurement error models HIRA L. KOUL, WEIXING SONG AND XIAOQING ZHU	