

THE ANNALS *of* STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Articles

- Testing in high-dimensional spiked models IAIN M. JOHNSTONE AND
ALEXEI ONATSKI 1231
- Limiting laws for divergent spiked eigenvalues and largest nonspiked eigenvalue of
sample covariance matrices T. TONY CAI, XIAO HAN AND GUANGMING PAN 1255
- Post hoc confidence bounds on false positives using reference families
GILLES BLANCHARD, PIERRE NEUVIAL AND ETIENNE ROQUAIN 1281
- Distribution and correlation-free two-sample test of high-dimensional means
KAIJIE XUE AND FANG YAO 1304
- Just interpolate: Kernel “Ridgeless” regression can generalize
TENGYUAN LIANG AND ALEXANDER RAKHLIN 1329
- Bridging the gap between constant step size stochastic gradient descent and Markov
chains AYMERIC DIEULEVEUT, ALAIN DURMUS AND FRANCIS BACH 1348
- Nonparametric statistical inference for drift vector fields of multi-dimensional diffusions
RICHARD NICKL AND KOLYAN RAY 1383
- Robust inference with knockoffs
RINA FOYGEL BARBER, EMMANUEL J. CANDÈS AND RICHARD J. SAMWORTH 1409
- Nonparametric Bayesian analysis of the compound Poisson prior for support boundary
recovery MARKUS REISS AND JOHANNES SCHMIDT-HIEBER 1432
- Entrywise eigenvector analysis of random matrices with low expected rank
EMMANUEL ABBE, JIANQING FAN, KAIZHENG WANG AND YIQIAO ZHONG 1452
- Concentration of tempered posteriors and of their variational approximations
PIERRE ALQUIER AND JAMES RIDGWAY 1475
- Robust and rate-optimal Gibbs posterior inference on the boundary of a noisy image
NICHOLAS SYRING AND RYAN MARTIN 1498
- The hardness of conditional independence testing and the generalised covariance measure
RAJEN D. SHAH AND JONAS PETERS 1514
- Some theoretical properties of GANS
GÉRARD BIAU, BENOÎT CADRE, MAXIME SANGNIER AND UGO TANIELIAN 1539
- On post dimension reduction statistical inference
KYONGWON KIM, BING LI, ZHOU YU AND LEXIN LI 1567
- Statistical and computational limits for sparse matrix detection
T. TONY CAI AND YIHONG WU 1593
- Segmentation and estimation of change-point models: False positive control and
confidence regions XIAO FANG, JIAN LI AND DAVID SIEGMUND 1615
- Robust covariance estimation under $L_4 - L_2$ norm equivalence
SHAHAR MENDELSON AND NIKITA ZHIVOTOVSKIY 1648
- Robust inference via multiplier bootstrap XI CHEN AND WEN-XIN ZHOU 1665
- On the optimal reconstruction of partially observed functional data
ALOIS KNEIP AND DOMINIK LIEBL 1692
- Large sample properties of partitioning-based series estimators
MATIAS D. CATTANEO, MAX H. FARRELL AND YINGJIE FENG 1718
- Statistical inference in two-sample summary-data Mendelian randomization using robust
adjusted profile score QINGYUAN ZHAO, JINGSHU WANG, GIBRAN HEMANI,
JACK BOWDEN AND DYLAN S. SMALL 1742

Continued on back cover

THE ANNALS *of* STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Articles—Continued from front cover

- Local uncertainty sampling for large-scale multiclass logistic regression
LEI HAN, KEAN MING TAN, TING YANG AND TONG ZHANG 1770
- Local nearest neighbour classification with applications to semi-supervised learning
TIMOTHY I. CANNINGS, THOMAS B. BERRETT AND RICHARD J. SAMWORTH 1789
- An adaptable generalization of Hotelling's T^2 test in high dimension. HAORAN LI,
ALEXANDER AUE, DEBASHIS PAUL, JIE PENG AND PEI WANG 1815
- GRID: A variable selection and structure discovery method for high dimensional
nonparametric regression. FRANCESCO GIORDANO,
SOUENDRA NATH LAHIRI AND MARIA LUCIA PARRELLA 1848