Testability of high-dimensional linear models with nonsparse structures
JELENA BRADIC, JIANQING FAN AND YINCHU ZHU 615

Adaptive estimation in multivariate response regression with hidden variables
XIN BING, YANG NING AND YAO SHENG XU 640

Refined Cramér-type moderate deviation theorems for general self-normalized sums with applications to dependent random variables and winsorized mean
LAN GAO, QI-MAN SHAO AND JIA SHENG SHI 673

Distributed nonparametric function estimation: Optimal rate of convergence and cost of adaptation
T. TONY CAI AND HONGJI WEI 698

Edgeworth expansions for network moments
YUAN ZHANG AND DONG XIA 726

Parametric copula adjusted for non- and semiparametric regression
YUE ZHAO, IRÈNE GIGBELS AND INGRID VAN KEILEGOM 754

Inference for change points in high-dimensional data via selfnormalization
RUNMIN WANG, CHANGBO ZHU, STANISLAV VOLGUSHEV AND XIAOFENG SHAO 781

Optimal false discovery rate control for large scale multiple testing with auxiliary information
HONGYUAN CAO, JUN CHEN AND XIANYANG ZHANG 807

Adaptive test of independence based on HSIC measures
MÉLISANDE ALBERT, BEATRICE LAURENT, AMANDINE MARREL AND ANOUAR MEYNAOUI 858

Sparse high-dimensional linear regression. Estimating squared error and a phase transition
DAVID GÁMARNIK AND ILIAS ZADIK 880

Functional sufficient dimension reduction through average Fréchet derivatives
KUANG-YAO LEE AND LEXIN LI 904

General and feasible tests with multiply-imputed datasets
KIN WAI CHAN 930

Surprises in high-dimensional ridgeless least squares interpolation
TREVOR HASTIE, ANDREA MONTANARI, SAHARON ROSSET AND RYAN J. TIBSHIRANI 949

Motif estimation via subgraph sampling: The fourth-moment phenomenon
BHASWAR B. BHATTACHARYA, SAYAN DAS AND SUMIT MUKHERJEE 987

Multivariate ranks and quantiles using optimal transport: Consistency, rates and nonparametric testing
PROMIT GHOSAL AND BODHISATTV A SEN 1012

Necessary and sufficient conditions for asymptotically optimal linear prediction of random fields on compact metric spaces
KRISTIN KIRCHNER AND DAVID BOLIN 1038

Iterative algorithm for discrete structure recovery
CHAO GAO AND ANDERSON Y. ZHANG 1066

False discovery rate control with unknown null distribution: Is it possible to mimic the oracle?
ETIENNE ROQUAIN AND NICOLAS VERZELEN 1095

Max-sum tests for cross-sectional independence of high-dimensional panel data
LONG FENG, TIEFENG JIANG, BINGHUI LIU AND WEI XIONG 1124

Statistical inference for principal components of spiked covariance matrices
ZHI GANG BAO, XIU CAI DING, JING MING WANG AND KE WANG 1144

Reconciling design-based and model-based causal inferences for split-plot experiments
ANQI ZHAO AND PENG DING 1170

All-in-one robust estimator of the Gaussian mean
ARNAK S. DALALYAN AND ARSHAK MINASYAN 1193

Inference for low-rank tensors—no need to debias
DONG XIA, ANRU R. ZHANG AND YUCHEN ZHOU 1220