

THE ANNALS *of* APPLIED STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Articles

- Discovering interactions using covariate informed random partition models
GARRITT L. PAGE, FERNANDO A. QUINTANA AND GARY L. ROSNER 1
- Late 19th century navigational uncertainties and their influence on sea surface
temperature estimates CHENGUANG DAI, DUO CHAN,
PETER HUYBERS AND NATESH PILLAI 22
- Analyzing second order stochasticity of neural spiking under stimuli-bundle exposure
CHRIS GLYNN, SURYA T. TOKDAR, AZEEM ZAMAN, VALERIA C. CARUSO,
JEFF T. MOHL, SHAWN M. WILLETT AND JENNIFER M. GROH 41
- Integrative network learning for multimodality biomarker data
SHANGHONG XIE, DONGLIN ZENG AND YUANJIA WANG 64
- Point process modeling of drug overdoses with heterogeneous and missing data
XUEYING LIU, JEREMY CARTER, BRAD RAY AND GEORGE MOHLER 88
- An approximate best prediction approach to small area estimation for sheet and rill
erosion under informative sampling EMILY BERG AND JAE-KWANG KIM 102
- Robust inference when combining inverse-probability weighting and multiple imputation
to address missing data with application to an electronic health records-based study of
bariatric surgery TANAYOTT THAWEEHAI, DAVID E. ARTERBURN,
KAREN J. COLEMAN AND SEBASTIEN HANEUSE 126
- Spike-and-slab Lasso biclustering
GEMMA E. MORAN, VERONIKA ROČKOVÁ AND EDWARD I. GEORGE 148
- Random-effects meta-analysis of Phase I dose-finding studies using stochastic process
priors . . MORENO URSINO, CHRISTIAN RÖVER, SARAH ZOHAR AND TIM FRIEDE 174
- Model free estimation of graphical model using gene expression data
JENNY YANG, YANG LIU, YUFENG LIU AND WEI SUN 194
- An evaluation of statistical methods for aggregate patterns of replication failure
JACOB M. SCHAUER, KAITLYN G. FITZGERALD, SARAH PEKO-SPICER,
MENA C. R. WHALEN, RIRITA ZEJNULLAHI AND LARRY V. HEDGES 208
- Large-scale inference of correlation among mixed-type biological traits with phylogenetic
multivariate probit models ZHENYU ZHANG, AKIHIKO NISHIMURA,
PAUL BASTIDE, XIANG JI, REBECCA P. PAYNE, PHILIP GOULDER,
PHILIPPE LEMEY AND MARC A. SUCHARD 230
- Monitoring vaccine safety by studying temporal variation of adverse events using vaccine
adverse event reporting system JING HUANG, YI CAI, JINGCHENG DU,
RUOSHA LI, SUSAN S. ELLENBERG, SEAN HENNESSY,
CUI TAO AND YONG CHEN 252
- The role of scale in the estimation of cell-type proportions
GREGORY J. HUNT AND JOHANN A. GAGNON-BARTSCH 270
- Two-phase sampling strategies for design-based mapping of continuous spatial
populations in environmental surveys . . LORENZO FATTORINI, SARA FRANCESCHI,
MARZIA MARCHESELLI, CATERINA PISANI AND LUCA PRATELLI 287

Continued on back cover