THE ANNALS of APPLIED STATISTICS

AN OFFICIAL JOURNAL OF THE INSTITUTE OF MATHEMATICAL STATISTICS

Articles

A Bayesian precision medicine framework for calibrating individualized therapeutic indices in cancer ABHISEK SAHA, MIN JIN HA,	
SATWIK ACHARYYA AND VEERABHADRAN BALADANDAYUTHAPANI	2055
Semiparametric Bayesian forecasting of SpatioTemporal earthquake occurrences GORDON J. ROSS AND ALEKSANDAR A. KOLEV	2083
Estimating the stillbirth rate for 195 countries using a Bayesian sparse regression model with temporal smoothing Zhengfan Wang, Miranda J. Fix, Lucia Hug, Anu Mishra, Danzhen You, Hannah Blencowe, Jon Wakefield and Leontine Alkema	2101
Functional random effects modeling of brain shape and connectivity EARDI LILA AND JOHN A. D. ASTON	2122
Hierarchical resampling for bagging in multistudy prediction with applications to human neurochemical sensing	2145
Network differential connectivity analysis SEN ZHAO AND ALI SHOJAIE	2166
Estimating heterogeneous gene regulatory networks from zero-inflated single-cell expression data $$\operatorname{\textbf{QIUYU}}\nolimits$ WU AND XIANGYU LUO	2183
Accounting for survey design in Bayesian disaggregation of survey-based areal estimates of proportions: An application to the American Community Survey MARCO H. BENEDETTI, VERONICA J. BERROCAL AND RODERICK J. LITTLE	2201
Bayesian multivariate sparse functional principal components analysis with application to longitudinal microbiome multiomics data LINGJING JIANG, CHRIS ELROD, JANE J. KIM, AUSTIN D. SWAFFORD, ROB KNIGHT AND WESLEY K. THOMPSON	2231
$eq:def:Data-adaptive efficient estimation strategies for biomarker studies embedded in randomized trials \\ Wei Zhang, Zhiwei Zhang, James F. Troendle and Aiyi Liu$	2250
An omnibus test for detection of subgroup treatment effects via data partitioning $$\operatorname{YiFei}\ Sun,\ Xuming\ He\ and\ Jianhua\ Hu$$	2266
Assessing treatment effect through compliance score in randomized trials with noncompliance Zonghui Hu, Zhiwei Zhang and Dean Follmann	2279
Spatiotemporal satellite data imputation using sparse functional data analysis WEICHENG ZHU, ZHENGYUAN ZHU AND XIONGTAO DAI	2291
Multilevel time-series models for small area estimation at different frequencies and domain levels HARM JAN BOONSTRA AND JAN VAN DEN BRAKEL	2314
How many refugees and migrants died trying to reach Europe? Joint population size and total estimation	2339
Full Bayesian inference in hidden Markov models of plant growth GAUTIER VIAUD, YUTING CHEN AND PAUL-HENRY COURNÈDE	2352
Extended stochastic block models with application to criminal networks SIRIO LEGRAMANTI, TOMMASO RIGON, DANIELE DURANTE AND DAVID B. DUNSON	2369

Continued on back cover