THE ANNALS of APPLIED STATISTICS

AN OFFICIAL JOURNAL OF THE INSTITUTE OF MATHEMATICAL STATISTICS

Articles

Bayesian binomial mixture models for estimating abundance in ecological monitoring studies	1
Convex hierarchical testing of interactions	-
JACOB BIEN, NOAH SIMON AND ROBERT TIBSHIRANI	27
Modeling county level breast cancer survival data using a covariate-adjusted frailty proportional hazards model	
HAIMING ZHOU, TIMOTHY HANSON, ALEJANDRO JARA AND JIAJIA ZHANG	43
Ensembling classification models based on phalanxes of variables with applications in drug discovery JABED H. TOMAL, WILLIAM J. WELCH AND RUBEN H. ZAMAR	69
Characterizing the spatial structure of defensive skill in professional basketball ALEXANDER FRANKS, ANDREW MILLER, LUKE BORNN AND KIRK GOLDSBERRY	94
Reactive point processes: A new approach to predicting power failures in underground electrical systems	122
Continuous-time discrete-space models for animal movement EPHRAIM M. HANKS, MEVIN B. HOOTEN AND MAT W. ALLDREDGE	145
Estimating network degree distributions under sampling: An inverse problem, with applications to monitoring social media networks YAONAN ZHANG, ERIC D. KOLACZYK AND BRUCE D. SPENCER	166
Estimating the relative rate of recombination to mutation in bacteria from single-locus variants using composite likelihood methods PAUL FEARNHEAD, SHOUKAI YU, PATRICK BIGGS, BARBARA HOLLAND AND NIGEL FRENCH	200
A multi-functional analyzer uses parameter constraints to improve the efficiency of model-based gene-set analysis	
ZHISHI WANG, QIULING HE, BRET LARGET AND MICHAEL A. NEWTON Inferring causal impact using Bayesian structural time-series models	225
Kay H. Brodersen, Fabian Gallusser, Jim Koehler, Nicolas Remy and Steven L. Scott	247
Mixed model and estimating equation approaches for zero inflation in clustered binary response data with application to a dating violence study KARA A. FULTON, DANPING LIU, DENISE L. HAYNIE AND PAUL S. ALBERT	275
Inferring gene-gene interactions and functional modules using sparse canonical correlation analysis Y. X. RACHEL WANG, KENI JIANG, LEWIS J. FELDMAN, PETER J. BICKEL AND HAIYAN HUANG	300
Statistical paleoclimate reconstructions via Markov random fields DOMINIQUE GUILLOT, BALA RAJARATNAM AND JULIEN EMILE-GEAY	324
Modeling for seasonal marked point processes: An analysis of evolving hurricane occurrences	353

Continued on back cover