

THE ANNALS *of* APPLIED STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Special Section on Network Modeling

Introduction to papers on the modeling and analysis of network data—II	
STEPHEN E. FIENBERG	533
A state-space mixed membership blockmodel for dynamic network tomography	
ERIC P. XING, WENJIE FU AND LE SONG	535
Maximum likelihood estimation for social network dynamics	
TOM A. B. SNIJDERS, JOHAN KOSKINEN AND MICHAEL SCHWEINBERGER	567
Empirical stationary correlations for semi-supervised learning on graphs	
YA XU, JUSTIN S. DYER AND ART B. OWEN	589
Ranking relations using analogies in biological and information networks	
RICARDO SILVA, KATHERINE HELLER, ZOUBIN GHAHRAMANI AND EDOARDO M. AIROLDI	615
Bayesian anomaly detection methods for social networks	
NICHOLAS A. HEARD, DAVID J. WESTON, KIRIAKI PLATANIOTI AND DAVID J. HAND	645
Sparse regulatory networks	
GARETH M. JAMES, CHIARA SABATTI, NENGFENG ZHOU AND JI ZHU	663
Strategies for online inference of model-based clustering in large and growing networks	
HUGO ZANGHI, FRANCK PICARD, VINCENT MIELE AND CHRISTOPHE AMBROISE	687
Uncovering latent structure in valued graphs: A variational approach	
MAHENDRA MARIADASSOU, STÉPHANE ROBIN AND CORINNE VACHER	715

Articles

High-throughput data analysis in behavior genetics	
ANAT SAKOV, ILAN GOLANI, DINA LIPKIND AND YOAV BENJAMINI	743
Transposable regularized covariance models with an application to missing data imputation	
GENEVERA I. ALLEN AND ROBERT TIBSHIRANI	764
Building a model for scoring 20 or more runs in a baseball game	
MICHAEL R. HUBER AND RODNEY X. STURDIVANT	791
Changing approaches of prosecutors towards juvenile repeated sex-offenders: A Bayesian evaluation . . .	
DIPANKAR BANDYOPADHYAY, DEBAJYOTI SINHA, STUART LIPSITZ AND ELIZABETH LETOURNEAU	805
Likelihood inference for particle location in fluorescence microscopy	
JOHN HUGHES, JOHN FRICKS AND WILLIAM HANCOCK	830
The sensitivity of linear regression coefficients' confidence limits to the omission of a confounder . . .	
CARRIE A. HOSMAN, BEN B. HANSEN AND PAUL W. HOLLAND	849
Statistical inference of transmission fidelity of DNA methylation patterns over somatic cell divisions in mammals	
AUDREY QIUYAN FU, DIANE P. GENEUREUX, REINHARD STÖGER, CHARLES D. LAIRD AND MATTHEW STEPHENS	871
Density estimation for grouped data with application to line transect sampling	
WONCHEOL JANG AND JI MENG LOH	893

Continued on back cover

THE ANNALS
of
APPLIED
STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Articles—Continued from front cover

A Dirichlet process mixture of hidden Markov models for protein structure prediction KRISTIN P. LENNOX, DAVID B. DAHL, MARINA VANNUCCI, RYAN DAY AND JERRY W. TSAI	916
A flexible regression model for count data KIMBERLY F. SELLERS AND GALIT SHMUELI	943
A nested mixture model for protein identification using mass spectrometry QUNHUA LI, MICHAEL J. MACCOSS AND MATTHEW STEPHENS	962
Bayesian meta-analysis for identifying periodically expressed genes in fission yeast cell cycle XIAODAN FAN, SAUMYADIPTA PYNE AND JUN S. LIU	988
A geometric interpretation of the permutation p -value and its application in eQTL studies WEI SUN AND FRED A. WRIGHT	1014
DISCO analysis: A nonparametric extension of analysis of variance MARIA L. RIZZO AND GÁBOR J. SZÉKELY	1034
Feature selection guided by structural information MARTIN SLAWSKI, WOLFGANG ZU CASTELL AND GERHARD TUTZ	1056
Exact asymptotic distribution of change-point mle for change in the mean of Gaussian sequences STERGIOS B. FOTOPOULOS, VENKATA K. JANDHYALA AND ELENA KHAPALOVA	1081
Intervention analysis with state-space models to estimate discontinuities due to a survey redesign JAN VAN DEN BRAKEL AND JOERI ROELS	1105