

Contents

Some Themes in High-Dimensional Statistics	1
Arnoldo Frigessi, Peter Bühlmann, Ingrid K. Glad, Sylvia Richardson, and Marina Vannucci	
Laplace Approximation in High-Dimensional Bayesian Regression	15
Rina Foygel Barber, Mathias Drton, and Kean Ming Tan	
Preselection in Lasso-Type Analysis for Ultra-High Dimensional Genomic Exploration	37
Linn Cecilie Bergersen, Ismail Ahmed, Arnoldo Frigessi, Ingrid K. Glad, and Sylvia Richardson	
Spectral Clustering and Block Models: A Review and a New Algorithm	67
Sharmodeep Bhattacharyya and Peter J. Bickel	
Bayesian Hierarchical Mixture Models	91
Leonardo Bottolo and Petros Dellaportas	
iBATCGH: Integrative Bayesian Analysis of Transcriptomic and CGH Data	105
Alberto Cassese, Michele Guindani, and Marina Vannucci	
Models of Random Sparse Eigenmatrices and Bayesian Analysis of Multivariate Structure	125
Andrew Cron and Mike West	
Combining Single and Paired End RNA-seq Data for Differential Expression Analyses	155
Zhi-Ping Feng, Francois Collin, and Terence P. Speed	
An Imputation Method for Estimating the Learning Curve in Classification Problems	189
Eric B. Laber, Kerby Shedden, and Yang Yang	

Bayesian Feature Allocation Models for Tumor Heterogeneity	211
Juhee Lee, Peter Müller, Subhajit Sengupta, Kamalakar Gulukota, and Yuan Ji	
Bayesian Penalty Mixing: The Case of a Non-separable Penalty	233
Veronika Ročková and Edward I. George	
Confidence Intervals for Maximin Effects in Inhomogeneous Large-Scale Data	255
Dominik Rothenhäusler, Nicolai Meinshausen, and Peter Bühlmann	
χ^2-Confidence Sets in High-Dimensional Regression	279
Sara van de Geer and Benjamin Stucky	



<http://www.springer.com/978-3-319-27097-5>

Statistical Analysis for High-Dimensional Data

The Abel Symposium 2014

Frigessi, A.; Bühlmann, P.; Glad, I.K.; Langaas, M.;

Richardson, S.; Vannucci, M. (Eds.)

2016, XII, 306 p. 65 illus., 46 illus. in color., Hardcover

ISBN: 978-3-319-27097-5