

Contents

Preface to the USTC Alumni's Series	/i
From the Editors <i>Shuangge Ma & Yuedong Wang</i>	/iii
Preface <i>Shaw-Hwa Lo</i>	/v
Section I Statistical Genetics	
Linkage Analysis with Mixed Sample of Affected Full and Half Sib Pairs in the Presence of Uncertain Relationship <i>Wenquan Cui, Hong Zhang, Yaning Yang, Zhaohai Li</i>	/3
Sequential Importance Sampling with Resampling in Molecular Population Genetics <i>Yuguo Chen</i>	/16
Multiple-trait Quantitative Trait Loci Mapping Using Stochastic Search Variable Selection <i>Nan Lin</i>	/40
Section II Statistical Analysis of Microarray Data	
Statistical Analysis of Microarray Time Course Gene Expression Data with Functional Hierarchical Models <i>Fangxin Hong</i>	/55
A Nonparametric Method for the Conservative Estimation of the Proportion of True Null Hypotheses <i>Yinglei Lai</i>	/76
Partial Consistent Normalization Methods of Microarray Data <i>Heng Peng</i>	/91
Variance Estimation for Gene-expression Microarray Data <i>Tiejun Tong, Yuedong Wang</i>	/106

Section III Computational Biology

A Study of Protein Subcellular Localization Prediction

Huangqing Feng, Wenlong Xu, Xianghua Zhang, Ao Li, Dan Xie, Minghui Wang /123

Computational Methods for Biomolecular Sequence Comparison

Kun-Mao Chao, Tao Jiang /154

Statistical Learning on a Complex Metabolomic Dataset

Xiaodong Lin, Susan J. Simmons, Chris Beecher, Young Truong, S. Stanley Young /172

A Flexible Statistical Model for Chromatin Sequences

Ji-Ping Wang, Liqun Xi /185

Section IV General Methodology

Some Advances in Finite Mixture Models

Jiahua Chen /203

Smoothing Spline ANOVA with Heterogeneous Variances and Application to EEG Data

Wensheng Guo, Ming Dai /221

Kernel Estimation in Longitudinal Data with Outcome-related Observation Times

Donglin Zeng, Daohai Yu /238

A Computable Bound for the Geometric Convergence Rate of the Lasso Gibbs Sampler

Hui Zou /262

Brief Introduction of Authors

/275