

Contents

Part I Monte-Carlo Techniques

- Joint Generation of Binary, Ordinal, Count, and Normal Data with Specified Marginal and Association Structures in Monte-Carlo Simulations** 3
Hakan Demirtas, Rawan Allozi, Yiran Hu, Gul Inan and Levent Ozbek
- Improving the Efficiency of the Monte-Carlo Methods Using Ranked Simulated Approach** 17
Hani Michel Samawi
- Normal and Non-normal Data Simulations for the Evaluation of Two-Sample Location Tests** 41
Jessica R. Hoag and Chia-Ling Kuo
- Anatomy of Correlational Magnitude Transformations in Latency and Discretization Contexts in Monte-Carlo Studies** 59
Hakan Demirtas and Ceren Vardar-Acar
- Monte-Carlo Simulation of Correlated Binary Responses** 85
Trent L. Lalonde
- Quantifying the Uncertainty in Optimal Experiment Schemes via Monte-Carlo Simulations** 107
H.K.T. Ng, Y.-J. Lin, T.-R. Tsai, Y.L. Lio and N. Jiang
- Part II Monte-Carlo Methods in Missing Data**
- Markov Chain Monte-Carlo Methods for Missing Data Under Ignorability Assumptions** 129
Haresh Rochani and Daniel F. Linder
- A Multiple Imputation Framework for Massive Multivariate Data of Different Variable Types: A Monte-Carlo Technique** 143
Hakan Demirtas

Hybrid Monte-Carlo in Multiple Missing Data Imputations with Application to a Bone Fracture Data	163
Hui Xie	
Statistical Methodologies for Dealing with Incomplete Longitudinal Outcomes Due to Dropout Missing at Random	179
A. Satty, H. Mwambi and G. Molenberghs	
Applications of Simulation for Missing Data Issues in Longitudinal Clinical Trials	211
G. Frank Liu and James Kost	
Application of Markov Chain Monte-Carlo Multiple Imputation Method to Deal with Missing Data from the Mechanism of MNAR in Sensitivity Analysis for a Longitudinal Clinical Trial	233
Wei Sun	
Part III Monte-Carlo in Statistical Modellings and Applications	
Monte-Carlo Simulation in Modeling for Hierarchical Generalized Linear Mixed Models	255
Kyle M. Irimata and Jeffrey R. Wilson	
Monte-Carlo Methods in Financial Modeling	285
Chuanshu Ji, Tao Wang and Leicheng Yin	
Simulation Studies on the Effects of the Censoring Distribution Assumption in the Analysis of Interval-Censored Failure Time Data	319
Tyler Cook, Zhigang Zhang and Jianguo Sun	
Robust Bayesian Hierarchical Model Using Monte-Carlo Simulation	347
Geng Chen and Sheng Luo	
A Comparison of Bootstrap Confidence Intervals for Multi-level Longitudinal Data Using Monte-Carlo Simulation	367
Mark Reiser, Lanlan Yao, Xiao Wang, Jeanne Wilcox and Shelley Gray	
Bootstrap-Based LASSO-Type Selection to Build Generalized Additive Partially Linear Models for High-Dimensional Data	405
Xiang Liu, Tian Chen, Yuanzhang Li and Hua Liang	
Erratum to: Monte-Carlo Simulation-Based Statistical Modeling	E1
Index	425