



Some Recent Advances in Mathematics and Statistics

Yogendra P Chaubey

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This volume consists of a series of research papers presented at the conference Statistics 2011 Canada: 5th Canadian Conference in Applied Statistics held together with the 20th conference of the Forum for Interdisciplinary Mathematics titled, “Interdisciplinary Mathematical & Statistical Techniques”. These papers cover a wide range of topics from applications of Mathematics and Statistics such as Selection Bias in Surveys, Biomarker Discovery, Analysis of Earth Temperature, Supply Chain Management, Trimmed ANOVA, Zero-inflated Data, Non-Gaussian Time Series, and Stochastic Ordering; Classification, Nonparametric Test, and Jackknifed Ridge Estimator; Bayes Factor; Random Graphs and Error Correcting Codes; Meta Analysis; and National Health Plans and Risk Reduction through Supply Chain.

The topics have been reviewed by experts in the field and the selected papers are expected to provide a topical resource on the subjects concerned.

Contents:

- Preface
- Hypothesis Assessment Using the Bayes Factor and Relative Belief Ratio (*Z Baskurt and M Evans*)
- An Analysis of 1990-2011 Ontario Surface Air Temperatures (*D R Brillinger*)
- A Markov Chain Monte Carlo Sampler for Gene Genealogies Conditional on Haplotype Data (*K M Burkett, B McNeney and J Graham*)
- Jackknifing Stochastic Restricted Ridge Estimator with Heteroscedastic Errors (*Y P Chaubey, M Khurana and S Chandra*)
- Molecular Classification of Acute Leukemia (*G Chen and J Wu*)
- A Note on a Nonparametric Trend Test and Its Competitors (*K Deka and B Gogoi*)
- Local Search for Identifying Communities in Large Random Graphs (*N Deo and M Vasudevan*)
- Data Mining Approaches to Multivariate Biomarker Discovery (*D M Dziuda*)
- On Sequential Change-Point Detection Strategies (*E Gombay*)
- Multi-Item Two-Stage EOQ Model Incorporating Quantity and Freight Discounts (*D Gupta, K Gandhi, S Makkar and P C Jha*)
- An Improved Bound on Average Codeword Length of Variable Length Error Correcting Codes (*R Gupta and B Sharma*)
- Trimmed Analysis of Variance: A Robust Modification of ANOVA (*G S Mudholkar, D K Srivastava, C E Marchetti and A G Mudholkar*)
- Bayesian Predictive Inference under Sequential Sampling with Selection Bias (*B Nandram and D Kim*)
- Tests For and Against Uniform Stochastic Ordering on Multinomial Parameters Based on Φ -Divergences (*J Peng*)
- Development and Management of National Health Plans: Health Economics and Statistical Perspectives (*P K Sen*)
- A Unified Approach between Population-Averaged and Cluster-Specific Analyses for Multilevel Zero-Inflated Count Data (*G Sneddon, M T Hasan and R Ma*)
- Meta-Analysis of Binary Outcomes Data in Clinical Trials (*P Subbaiah, A Mallick and T K Desai*)
- Risk Reduction of the Supply Chain through Pooling Losses in Case of Bankruptcy of Suppliers Using the Black-Scholes-Merton Pricing Model (*R Valverde and M Talla*)
- Random Effects Modelling of Non-Gaussian Time Series Responses with Covariates (*G Yan, M T Hasan*)

and $R Ma$)

Readership: Graduate researchers and students in statistics.

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