

Contents

Preface	
<i>N. Balakrishnan, Edsel A. Peña and Mervyn J. Silvapulle</i>	v
Contributors to this volume	vii
Pranab Kumar Sen: Life and works	
<i>N. Balakrishnan, Edsel A. Peña and Mervyn J. Silvapulle</i>	1
PARAMETRIC INFERENCE	
Analytic perturbations and systematic bias in statistical modeling and inference	
<i>Jerzy A. Filar, Irene Hudson, Thomas Mathew and Bimal Sinha</i>	17
Smooth estimation of mean residual life under random censoring	
<i>Yogendra P. Chaubey and Arusharka Sen</i>	35
ORDER RESTRICTED INFERENCE	
Order restricted inference for comparing the cumulative incidence of a competing risk over several populations	
<i>Hammou El Barmi, Subhash Kochar and Hari Mukerjee</i>	50
Statistical inference under order restrictions on both rows and columns of a matrix, with an application in toxicology	
<i>Eric Teoh, Abraham Nyska, Uri Wormser and Shyamal D. Peddada</i>	62
On the structure of a family of probability generating functions induced by shock models	
<i>Satrajit Roychoudhury and Manish C. Bhattacharjee</i>	78
BAYESIAN INFERENCE	
A Bayesian test for excess zeros in a zero-inflated power series distribution	
<i>Archan Bhattacharya, Bertrand S. Clarke and Gauri S. Datta</i>	89
Posterior consistency of Dirichlet mixtures of beta densities in estimating positive false discovery rates	
<i>Subhashis Ghosal, Anindya Roy and Yongqiang Tang</i>	105
ROBUST INFERENCE	
Robust estimation in finite population sampling	
<i>Malay Ghosh</i>	116
BEYOND PARAMETRICS	
Estimation of population-level summaries in general semiparametric repeated measures regression models	
<i>Arnab Maity, Tatiyana V. Apanasovich and Raymond J. Carroll</i>	123
Smoothing-inspired lack-of-fit tests based on ranks	
<i>Jeffrey D. Hart</i>	138
A nonparametric control chart based on the Mann–Whitney statistic	
<i>Subhabrata Chakraborti and Mark A. van de Wiel</i>	156
Regression rank scores in nonlinear models	
<i>Jana Jurečková</i>	173