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Titolo	Development of modern statistics and related topics [[electronic resource] ] : in celebration of Prof. Yaoting Zhang's 70th birthday // edited by Heping Zhang, Jian Huang
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ISBN	1-281-95609-0 9786611956097 981-279-670-3
Descrizione fisica	1 online resource (301 p.)
Collana	Series in biostatistics ; ; v. 1
Altri autori (Persone)	ZhangYaoting <1933-> ZhangHeping HuangJian
Disciplina	519.5
Soggetti	Statistics
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents ; Preface ; An Interview with Professor Yaoting Zhang ; Growing Up ; Professor Paolu Hsu and Statistics ; During the 'Culture Revolution' ; After 'Culture Revolution' ; I am Proud of My Students ; Significance Level in Interval Mapping ; 1. Introduction ; 2. Known Results 3. A Combined Approximation 4. The Interval Mapping Process in the Gaussian Limit ; 5. Likelihood Ratio Transformation ; 6. Rice-Davies Approximation ; 7. Evaluation of (9) ; 8. Remarks ; References ; An Asymptotic Pythagorean Identity ; 1. Introduction 2. Pythagorean Identity for Variance Calculation 3. Examples ; 4. Remarks ; References ; 1. A Monte Carlo Gap Test in Computing HPD Regions ; 1. Introduction ; 2. Current Monte Carlo Methods ; 3. Monte Carlo Gap Tests ; 4. A Simulation Study

; 5. Concluding Remarks ; References  
 Estimating Restricted Normal Means Using the EM-type Algorithms and  
 IBF Sampling 1.  
 Introduction ; 2. Nonproduct versus Product Parameter  
 Space ; 3. Estimation When Variances  
 Are Known ; 4. Estimation when variances  
 are Unknown ; 5. Applications  
 ; 6. Discussion ; References  
 An Example of Algorithm Mining: Covariance Adjustment to Accelerate  
 EM and Gibbs  
 1. An Overview ; 2. The Student-t Distribution  
 ; 3. The EM Algorithm ; 4. The DA Algorithm  
 ; 5. The PX-EM Algorithm ; 6. The PX-DA Algorithm  
 ; 7. The CA-DA Algorithm ; 8. Discussion  
 ; References  
 Large Deviations and Deviation Inequality for Kernel Density Estimator  
 in L1(RD)-distance

Sommario/riassunto

This book encompasses a wide range of important topics. The articles cover the following areas: asymptotic theory and inference, biostatistics, economics and finance, statistical computing and Bayesian statistics, and statistical genetics. Specifically, the issues that are studied include large deviation, deviation inequalities, local sensitivity of model misspecification in likelihood inference, empirical likelihood confidence intervals, uniform convergence rates in density estimation, randomized designs in clinical trials, MCMC and EM algorithms, approximation of p-values in multipoint link