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| Collana | Emerging Topics in Statistics and Biostatistics, , 2524-7743 |
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| Soggetti | Statistics |
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| | Bayesian Inference Bayesian Notwork |
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| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | 1. A Bayesian Approach for Step-stress Accelerated Life-tests for One- shot Devices under Exponential Distributions 2. Bayesian Estimation of Stress-strength Parameter for Moran-Downton Bivariate Exponential Distribution under Progressive Type-II Censoring 3. Bayesian Computation in A Birnbaum-Saunders Reliability Model with Applications to Fatigue Data 4. A Competing Risks Model Based on A Two-parameter Exponential Family Distribution under Progressive Type-II Censoring 5. Bayesian Computations for Reliability Analysis in Dynamic Environments 6. Bayesian Analysis of Stochastic Processes in Reliability 7. Bayesian Analysis of A New Bivariate Wiener Degradation Process 8. Bayesian Estimation for Bivariate Gamma Processes with Copula 9. Review of Statistical Treatment for Oncology Dose Escalation Trial with Prolonged Evaluation Window or Fast Enrollment 10. A Bayesian Approach for the Analysis of Tumorigenicity Data from Sacrificial Experiments under Weibull |

1.

| | Lifetimes 11. Bayesian Sensitivity Analysis in Survival and Longitudinal Trial with Missing Data 12. Bayesian Analysis for Clustered Data under A Semi-competing Risks Framework 13. Survival Analysis for the Inverse Gaussian Distribution: Natural Conjugate and Jeffrey's Priors 14. Bayesian Inferences for Panel Count Data and Interval-censored Data with Nonparametric Modeling of the Baseline Functions 15. Bayesian Approach for Interval- censored Survival Data with Time-varying Coefficients 16. Bayesian Approach for Joint-modeling Longitudinal Data and Survival Data Simultaneously in Public Health Studies. |
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| Sommario/riassunto | Bayesian analysis is one of the important tools for statistical modelling and inference. Bayesian frameworks and methods have been successfully applied to solve practical problems in reliability and survival analysis, which have a wide range of real world applications in medical and biological sciences, social and economic sciences, and engineering. In the past few decades, significant developments of Bayesian inference have been made by many researchers, and advancements in computational technology and computer performance has laid the groundwork for new opportunities in Bayesian computation for practitioners. Because these theoretical and technological developments introduce new questions and challenges, and increase the complexity of the Bayesian framework, this book brings together experts engaged in groundbreaking research on Bayesian inference and computation to discuss important issues, with emphasis on applications to reliability and survival analysis. Topics covered are timely and have the potential to influence the interacting worlds of biostatistics, engineering, medical sciences, statistics, and more. The included chapters present current methods, theories, and applications in the diverse area of biostatistical analysis. The volume as a whole serves as reference in driving quality global health research |