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| Soggetti | Statistics Statistics for Life Sciences, Medicine, Health Sciences Statistics for Business, Management, Economics, Finance, Insurance Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences |
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| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters. |
| Nota di contenuto | Preface; Contents; Introduction; Part I Risk Methods for Bioinformatics; Generalized Information Criteria for the Best Logit Model; 1 Introduction; 2 Entropy Type Information Measures; 3 Generalized Fisher's Information and Relative Risk; 3.1 Algorithm; 3.2 Application; 4 Discussion; References; Fractal Case Study for Mammary Cancer: Analysis of Interobserver Variability; 1 Introduction; 2 Case Study; 2.1 Jarque-Bera-Statistic; 2.2 Skewness and Kurtosis; 2.3 Depth-Plot; 3 Graphical Analysis for Variance 3.1 Simple Discrimination Between Masthopathy and Mammary Cancer Based on the Box-Counting Dimension 3.2 Testing for Normality of the Groups; 4 Discussion; References; On Analytical Methods for Cancer Research; 1 Introduction; 2 Data Analysis; 3 Conclusions; References; Modelling Times Between Events with a Cured Fraction Using a First Hitting Time Regression Model with Individual Random Effects; 1 Introduction; 2 Model Definition and Estimation; 2.1 The Model; 2.2 The Likelihood; 2.3 The MCMC; 2.4 Model Selection Criteria; 3 The Nature of the Cured Fraction; 4 Case Study; 4.1 The Data 4.2 Results 4.3 Model Selection; 5 Conclusions; References; |

Acceleration, Due to Occupational Exposure, of Time to Onset of a Disease; 1 Introduction; 2 Motivation of the Choice of FHT Model; 2.1 Preliminary Studies; 2.2 FHT Model; 3 The Data Set; 3.1 Description of the Data Set; 3.2 Specific Problems Due to the Data Set; 4 Data Analysis; 4.1 Preliminary Studies; 4.2 Acceleration Due to Occupational Exposure; 4.3 The Case-Control Weighed Log-likelihood; 4.4 Model Selection by Cross Validation; 4.5 Model Estimation; 5 Conclusion; References

Transformations of Confidence Intervals for Risk Measures? 1 Data Structures and Risk Measures; 2 Asymptotic Confidence Intervals for RR and OR; 3 Transformations of Confidence Intervals: An Instructive Example; 4 Conclusion; References; Discrete Compound Tests and Dorfman's Methodology in the Presence of Misclassification; 1 Introduction; 1.1 Group/Compound Tests; 1.2 Classification and Prevalence Rate Estimation; 1.3 Misclassification Evaluation; 2 A Proposal to Measure the Quality of the Individual Test; 3 Methodologies for the Compound Tests; 3.1 The Usual Methodology---M1 3.2 Alternative Methodologies---M2 and M24 Simulation; 4.1 Simulation Settings; 4.2 Results and Discussion; 5 Final Remarks; References; A Maximum Likelihood Estimator for the Prevalence Rate Using Pooled Sample Tests; 1 Introduction; 2 The Binomial Model; 3 ML Estimators in Several Group Testing Procedures; 3.1 Hierarchical Algorithms; 3.2 Array-Based Group Testing Algorithms; 4 Final Remarks; References; On Intra-individual Variations in Hair Minerals in Relation to Epidemiological Risk Assessment of Atopic Dermatitis; 1 Introduction; 2 Methods; 2.1 Intra-individual Variance 2.2 Simulation

Sommario/riassunto

This book covers the latest results in the field of risk analysis. Presented topics include probabilistic models in cancer research, models and methods in longevity, epidemiology of cancer risk, engineering reliability and economical risk problems. The contributions of this volume originate from the 5th International Conference on Risk Analysis (ICRA 5). The conference brought together researchers and practitioners working in the field of risk analysis in order to present new theoretical and computational methods with applications in biology, environmental sciences, public health, economics and finance.
