

<<应用多元统计分析方法>>

图书基本信息

书名：<<应用多元统计分析方法>>

13位ISBN编号：9787040165456

10位ISBN编号：7040165457

出版时间：2005-6

出版时间：高等教育出版社

作者：约翰逊

页数：567

字数：650000

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<应用多元统计分析方法>>

内容概要

应用多元回归分析方法，样本相关，多元数据点图，特征值和特征向量，复合分析原理，因子分析，判别分析，逻辑斯谛回归方法，聚类分析，均值向量和方差-协方差矩阵，方差多元分析，预测模型和多元回归。

本书统计内容覆盖面广于国内的概率统计教材，内容安排颇有新意，例如，在处理回归分析时，强调了从建模的观点与需要来考虑。

本书设有大量的例题与练习题，实用面丰富，统计思维清晰。

本书适用于高等院校统计学专业和理工科各专业本科生和研究生作为双语教材使用。

<<应用多元统计分析方法>>

作者简介

作者：（美国）约翰逊（Dallas E.Johnson）

<<应用多元统计分析方法>>

书籍目录

1. APPLIED MULTIVARIATE METHODS. 1.1 An Overview of Multivariate Methods 1.2 Two Examples
1.3 Types of Variables 1.4 Data Matrices and Vectors 1.5 The Multivariate Normal Distribution 1.6
Statistical Computing 1.7 Multivariate Outliers 1.8 Multivariate Summary Statistics 1.9 Standardized Data
and/or Z Scores 2. SAMPLE CORRELATIONS 2.1 Statistical Tests and Confidence Intervals 2.2 Summary 3.
MULTIVARIATE DATA PLOTS 3.1 Three-Dimensional Data Plots 3.2 Plots of Higher Dimensional Data
3.3 Plotting to Check for Multivariate Normality 4. EIGENVALUES AND EIGENVECTORS 4.1 Trace and
Determinant 4.2 Eigenvalues 4.3 Eigenvalctors 4.4 Geometrinc descriptions ($p=2$) 4.5 Geometric
descriptions ($p=3$) 4.6 Geometric descriptions ($p>3$) 5.PRINCIPAL COMPONENTS
ANALYSIS6.FACTOR ANALYSIS7.DISCRIMINANT ANALYSIS8.LOGISTIC REGRESSION
METHODS9.CLUSTER ANALYSIS10.MEAN VECTORS AND VARIANCE-COVARIANCE
MATRICES11.MULTIVARIATE ANALYSIS OF VARIANCE12.PREDICTION MODELS AND
MULTIVARIATE REGRESSIONAPPENDIX A:MATRIX RESULTSAPPENDIX B:WORK ATTITUDES
SURVEYAPPENDIX C:FAMILY CONTROL STUDYREFERENCESINDEX

<<应用多元统计分析方法>>

章节摘录

版权页：插图： Answer each of the following questions: a Without doing any statistical analyses, please try to answer the following questions as best you can. Do you see any outliers in this data set? If so, which employees look to be outliers? Explain why you think these employees are outliers. Obviously, the responses are discrete, so these data cannot truly be distributed as a multivariate normal population. However, do you believe the variables are approximately multivariate normally distributed? Explain your answer. The answers to the two preceding questions are not easy. Most researchers are not able to look visually at a data set and provide accurate answers to these questions. The reason for asking you to consider these questions at this point in time is to try to excite you about some upcoming methods that may help provide good answers to these questions. b Using a statistical computing package of your choice, find the correlation matrix corresponding to the responses to these 15 items. e Can these responses be partitioned into subgroups so that the responses within a subgroup have high correlations with one another, and so that responses in different subgroups have low correlations with one another? If so, what responses belong to each of the subgroups? d Consider the first three responses. Construct 95% confidence intervals for the true correlation between each pair using any method you wish. Do any of your intervals include zero? Which ones? Show your work. e Using any computer plotting package of your choice, create pairwise scatter plots for the first five responses. t Consider your plots in part e. Do there appear to be nonlinear relationships between these pairs of variables? Explain your answer. 11 Consider all of the survey data obtained from 975 employees of a national restaurant chain described in Appendix B. a Using a statistical computing package of your choice, find the correlation matrix corresponding to the responses to the first 18 questions in the survey. b Can these responses be partitioned into subgroups so that the responses within a subgroup have high correlations with one another, and so that responses in different subgroups have low correlations with one another? If so, what responses belong to each of the subgroups? e Choose the three pairs of responses that have the highest correlations between them, and construct 95% confidence intervals for the true correlation between each pair using any method you wish. Do any of your intervals include zero? Which ones? Show your work.

<<应用多元统计分析方法>>

编辑推荐

《海外优秀数学类教材系列丛书:应用多元统计分析方法(影印版)》可以作为非数学专业本科和研究生的教材,也可以作为各专业研究人员和工程技术人员的工具书。

<<应用多元统计分析方法>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介, 请支持正版图书。

更多资源请访问:<http://www.tushu007.com>