Data Mining Methods and Models

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Wiley-IEEE Press, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. 1. Dimension Reduction Methods. Need for Dimension Reduction in Data Mining. Principal Components Analysis. Factor Analysis. User-Defined Composites. 2. Regression Modeling. Example of Simple Linear Regression. Least-Squares Estimates. Coefficient or Determination. Correlation Coefficient. The ANOVA Table. Outliers, High Leverage Points, and Influential Observations. The Regression Model. Inference in Regression. Verifying the Regression Assumptions. An Example: The Baseball Data Set. An Example: The California Data Set. Transformations to Achieve Linearity. 3. Multiple Regression and Model Building. An Example of Multiple Regression. The Multiple Regression Model. Inference in Multiple Regression. Regression with Categorical Predictors. Multicollinearity. Variable Selection Methods. An Application of Variable Selection Methods. Mallows' C p Statistic. Variable Selection Criteria. Using the Principal Components as Predictors in Multiple Regression. 4. Logistic Regression. A Simple Example of Logistic Regression. Maximum Likelihood Estimation. Interpreting Logistic Regression Output. Inference: Are the Predictors Significant? Interpreting the Logistic Regression Model. Interpreting a Logistic Regression Model for a Dichotomous Predictor. Interpreting a Logistic Regression Model for a Polychotomous Predictor. Interpreting a Logistic Regression Model for a Continuous Predictor. The Assumption of Linearity. The Zero-Cell Problem. Multiple Logistic Regression. Introducing...

Reviews

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