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1 ASPECTS OF MULTIVARIATE ANALYSIS 1.1 Introduction 1 1.2 Applications of Multivariate Techniques 3 1.3 The Organization of Data 5 Arrays, 5 Descriptive Statistics, 6 Graphical Techniques, 11 1.4 Data Displays and Pictorial Representations 19 Linking Multiple Two-Dimensional Scatter Plots, 20 Graphs of Growth Curves, 24 Stars, 25 Chernoff Faces, 28 1.5 Distance 30 1.6 Final Comments 38 ...

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Multivariate regression is the primary statical tool for applied statistics in the social sciences. Consider two applications. Example 1. Capital Asset Pricing Model. In value an investment we assess the expected return and the risk associated with that investment. The risk is how much the stock may STAT 2221: Advanced Applied Multivariate Analysis Spring 2015, Tuesday - Thursday 2:30-3:45 at 218 Cathedral of Learning. Instructor: Sungkyu Jung

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Chapter 5 Bivariate Analysis | Applied Statistics

Multivariate random variables involve defining several random variables simultaneously on a sample space. In other words, multivariate random variables are vectors of random variables. For instance, a bivariate random variable X can be a vector with two components (X_1) and (X_2) with the corresponding realizations being (x_1) and (x_2) , respectively.

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Multivariate Analysis Lecture Notes - Phil Ender

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2. a linear function of x_1, x_2, \dots, x_k - multiple (multivariate) linear regression, 3. a polynomial function of x - polynomial regression, 4. any other type of function, with one or more parameters (e.g. $y = ae - bx$) - nonlinear regression. The coefficients (parameters) of these models are called regression coefficients (parameters).

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