

Data Fitting

1 Why

Often the precepts and postcepts are elements of d-dimensional and m-dimensional space, respectively. Moreover, we often believe in the existence of a functional prelation between these two spaces.

2 Definition

We think a vector in d-dimensional space and a vector in m-dimensional space are approximately related by a function. We call the argument to the function the **independent variable** and we call the result of the function the **dependent variable**. If m = 1, the dependent variable is a single real number.

A **predictor** is a function from the d dimensional space to the m dimensional space.