



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.