Subject: Determine Data relationship Posted by daevu on Wed, 17 May 2006 05:34:31 GMT

View Forum Message <> Reply to Message

Folks,

How would you approach this problem

I have a dependent variable x (in this case the probability of occurrence of a plant disease) which can be explained by a bunch of independent variables y(i) (in this case, weather data,eg Tair,Precip,Wind,soilmoisture, etc). I have a large dataset of plant disease probability and the corresponding weather data. How would I build a model of this relationship, like y=f(x(1-i)), linear, cubic, polynomial?

- neuronal networks would be an approach but there is no tool for it in IDL (as far as I know)
- wavelets: could this method used for it? if yes, any hints?

Thanks for your comments in advance...

D.

Subject: Re: Determine Data relationship Posted by wem on Thu, 18 May 2006 15:02:01 GMT

View Forum Message <> Reply to Message

daevu wrote:

> Folks,

>

>

- > How would you approach this problem
- I have a dependent variable x (in this case the probability of
 occurrence of a plant disease) which can be explained by a bunch of
- > independent variables y(i) (in this case, weather data,eg
- > Tair, Precip, Wind, soil moisture, etc). I have a large dataset of plant
- > disease probability and the corresponding weather data.
- > How would I build a model of this relationship, like y=f(x(1-i)),
- > linear, cubic, polynomial?
- > neuronal networks would be an approach but there is no tool for it in
- > IDL (as far as I know)
- > wavelets: could this method used for it? if yes, any hints?
- > Thanks for your comments in advance...
- > D.

>

I think this depends on what you are trying to accomplish with the model. Are you trying to predict new, future results, or trying to visualize the data, or maybe guessing results from data from the past where no new information can be gathered about, or ...?