Subject: Re: Nearest neighbors
Posted by N. Johnson on Fri, 09 Oct 2009 00:08:12 GMT
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On Oct 7, 7:00 pm, Chris <beaum...@ifa.hawaii.edu> wrote:
> On Oct 7, 2:01 pm, "N. Johnson" <evilish...@gmail.com> wrote:
>
>> I have a set of latitude/longitude pairs and I need to find the n
>> closest neighbors for all of them. I'm trying to use the
>> nearest_neighbors() function found on this
page:http://www.dfanning.com/code_tips/slowloops.html
>
>> However, when I attempt to run the function, I get an error on the
>> line:
>> p=c[c[point]:c[point+1]-1] ;start with this point's DT neighbors
>
>> because c[point] is equal to c[point+1]. Since I don't know exactly
>> what the function is doing, I don't know how to fix it. If it matters,
>> I have a lot of lat/lon pairs (~1e6) and there may be duplicates.
>
>> Any suggestions?
>> Nathan Johnson
>
> I have an alternative nearest neighbors routine that doesn't use
> triangulation - it may be useful (it assumes a euclidian space, so it
> won't work if your points are very spread out or near a pole)
>
> Documentation:http://www.ifa.hawaii.edu/~beaumont/code/neare stn.html(look at
> nearestn, not nearestn_findneighbors)
>
> Library:http://www.ifa.hawaii.edu/~beaumont/code/beaumont_li brary.tar
>
> Chris

Chris,

Thanks that works well. Is there a way to get the nth nearest points
by calling that function just once? Or do I have to call it n times?

Thanks,
Nathan