Subject: Re: Nearest neighbors
Posted by Chris[6] on Thu, 08 Oct 2009 02:00:25 GMT
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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/nearestn.html (look at nearestn, not nearestn_findneighbors)

Library:
http://www.ifa.hawaii.edu/~beaumont/code/beaumont_library.ta r

Chris