Subject: natural neighbor interpolation
Posted by manizade on Thu, 31 Dec 1998 08:00:00 GMT
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I would like to improve upon IDL TRIGRID's interpolation method
by using a weighted average, natural neighbor approach as
is implemented in Dave Watson's nngridr package. I found
that NCAR has adapted nngridr into a library of C and FORTRAN
code called Natgrid. I suppose I could use that via a set of IDL
wrappers and CALL_EXTERNAL routines. First, however, I would like
to know if anyone has already adapted these or similar routines
for IDL (either a direct port or a set of wrappers).
Thanks.

Serdar S. Manizade/EG&G
Airborne Topographic Mapper Project
NASA/GSFC/Wallops Flight Facility, Wallops Island, VA
http://aol.wff.nasa.gov/~manizade

Subject: Re: Natural Neighbor Interpolation
Posted by Jonathan Dursi on Fri, 24 Nov 2006 12:00:09 GMT
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Jeff Hester wrote:
> Does anyone know of an IDL implementation of natural neighbor
> interpolation (e.g.,
> http://ngwww.ucar.edu/ngdoc/ng4.4/ngmath/natgrid/intro.html)?

Check out GRIDDATA.

- Jonathan

--
Jonathan Dursi
ljdursi@cita.utoronto.ca
http://www.cita.utoronto.ca/~ljdursi/

Subject: Re: Natural Neighbor Interpolation
Posted by Jeff Hester on Tue, 28 Nov 2006 02:14:55 GMT
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Jonathan Dursi wrote:
> Jeff Hester wrote:
>
>> Does anyone know of an IDL implementation of natural neighbor

>> interpolation (e.g.,
>> http://ngwww.ucar.edu/ngdoc/ng4.4/ngmath/natgrid/intro.html)?
>
>
> Check out GRIDDATA.
>
> - Jonathan
>
> --
> Jonathan Dursi
> ljdursi@cita.utoronto.ca
> http://www.cita.utoronto.ca/~ljdursi/
>

I'm not sure how I missed it. Thanks. - Jeff

Subject: Re: Natural Neighbor Interpolation
Posted by David Fanning on Tue, 28 Nov 2006 02:24:50 GMT
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Jeff Hester writes:

> I'm not sure how I missed it. Thanks. - Jeff

Well, finding it and understanding it once you have found
it are two completely different things, it seems to me.
I'm convinced GRIDDATA must be a powerful routine, but the
documentation doesn't give me a clue how to use it. Does
anyone understand enough about the various gridding methods
available in GRIDDATA to write a decent article about it?

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Natural Neighbor Interpolation
Posted by Jonathan Dursi on Tue, 28 Nov 2006 16:37:51 GMT
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Jeff Hester wrote:

>
> I'm not sure how I missed it. Thanks. - Jeff

In fairness, for some strange reason `natural neighbors' isn't in the
index, so unless you know where to look you wouldn't see it.

Jonathan
--
Jonathan Dursi
ljdursi@cita.utoronto.ca
http://www.cita.utoronto.ca/~ljdursi/

Subject: Re: Natural Neighbor Interpolation
Posted by David Fanning on Tue, 28 Nov 2006 16:50:27 GMT
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Jonathan Dursi writes:

> In fairness, for some strange reason `natural neighbors' isn't in the
> index, so unless you know where to look you wouldn't see it.

No, clearly ITTVIS is trying to keep this excellent routine
under wraps. For what purpose, I really don't know. Possibly
because their technical support team has no more clue how or
when to use it then the rest of us.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Natural Neighbor Interpolation
Posted by Haje Korth on Tue, 28 Nov 2006 18:50:27 GMT
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...and I volunteer to proof read... :) Haje

David Fanning wrote:
> Jeff Hester writes:

>
>> I'm not sure how I missed it. Thanks. - Jeff
>
> Well, finding it and understanding it once you have found
> it are two completely different things, it seems to me.
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> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
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> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
