Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by rogass on Tue, 15 Feb 2011 13:06:05 GMT
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On 15 Feb., 12:28, Ding <gardener_2...@hotmail.com> wrote:
> Dear All,
>
> I developed a code based on the nonlinear diffusion Image filtering
> (see Joachim Weickert 1996).
> available athttp://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/pe ople/yuan/s...
>
> It performs edge-enhancing, coherence-enhancing image filtering, which
> enhance the features directionally as designed by the diffusion
> tensor, while smooth the rest of the image.
>
> You are welcome to download and test the codes, I appreciate that you
> send me comments and bugs.
>
> Cheers
>
> Ding Yuan
> CFSA, Physics
> Warwick University

Hi,
I'd like to test it, but maybe you forgot to include all routines in
you zip-file such as exist.pro. Yo can easily check this by using
RESOLVE_ALL.

Cheers

CR

Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by pgrigis on Tue, 15 Feb 2011 15:24:46 GMT
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On Feb 15, 8:06 am, chris <rog...@googlemail.com> wrote:
> On 15 Feb., 12:28, Ding <gardener_2...@hotmail.com> wrote:
>
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>
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>
>
>
>
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>
> Cheers
>
> CR

Looks like it's from solarsoft

function exist,var

return,n_elements(var) ne 0

end

Ciao,
Paolo

Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by Ding on Tue, 15 Feb 2011 16:07:27 GMT
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On Feb 15, 3:24 pm, Paolo <pgri...@gmail.com> wrote:
> On Feb 15, 8:06 am, chris <rog...@googlemail.com> wrote:

>
>
>
>> On 15 Feb., 12:28, Ding <gardener_2...@hotmail.com> wrote:
>
>>> Dear All,
>
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>>> available athttp://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/pe ople/yuan/s...
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>> Cheers
>
>> CR
>
> Looks like it's from solarsoft
>
> function exist,var
>
> return,n_elements(var) ne 0
>
> end
>
> Ciao,
> Paolo

It is true, I found it a good replacement of keyword_set() which some
times failed. I work on solar physics and used to include the
procedures in solarsoft

Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by David Fanning on Tue, 15 Feb 2011 16:11:46 GMT
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Ding writes:

> It is true, I found it a good replacement of keyword_set() which some
> times failed

I doubt it failed. It's often used for the wrong purpose
by people who judge its function by reading its name
instead of its documentation. :-)

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: Nonlinear Diffusion Image Filtering Package
Posted by Ding on Tue, 15 Feb 2011 17:05:59 GMT
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On Feb 15, 4:11 pm, David Fanning <n...@dfanning.com> wrote:
> Ding writes:
>> It is true, I found it a good replacement of keyword_set() which some
>> times failed
>
> I doubt it failed. It's often used for the wrong purpose
> by people who judge its function by reading its name
> instead of its documentation. :-)
>
> 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.")

I'd rather use n_elements() ne 0 instead of keyword_set().

Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by David Fanning on Tue, 15 Feb 2011 17:12:50 GMT
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Ding writes:

> I'd rather use n_elements() ne 0 instead of keyword_set().

I would suggest that is what you *should* be using instead
of Keyword_Set, so I'm glad to hear it. :-)

Cheers,

David

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

Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by cgguido on Tue, 15 Feb 2011 18:02:00 GMT
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Hi Ding,

I am having a problems with your code. It seems gsderiv checks of
sigma to be "in range", but incorrectly... Also, roll.pro uses sng
instead of signof.

Thanks!
Gianguido

IDL> imgf=nonlineardif(img,sigma, 0,
dt=0.1,ndt=20,mode='eed',scheme=scheme)
% Compiled module: NONLINEARDIF.
% Compiled module: EXIST.
% Variable is undefined: IN_RANGE.
% Execution halted at: GSDERIV 65 /Users/cgguido/idl/
cgguido/downloaded/nonlineardif/nonlineardif.pro

% NONLINEARDIF 505 /Users/cgguido/idl/
cgguido/downloaded/nonlineardif/nonlineardif.pro
% $MAIN$

Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by Michael Galloy on Tue, 15 Feb 2011 18:35:25 GMT
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On 2/15/11 10:05 AM, Ding wrote:
> I'd rather use n_elements() ne 0 instead of keyword_set().

KEYWORD_SET and N_ELEMENTS() ne 0 are telling you two *different* things
about your variable. Which one you use depends on what you need to know
about it.

Mike
--
www.michaelgalloy.com
Research Mathematician
Tech-X Corporation

Subject: Re: Nonlinear Diffusion Image Filtering Package
Posted by Ding on Tue, 15 Feb 2011 18:59:01 GMT
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On Feb 15, 6:02 pm, Gianguido Cianci <gianguido.cia...@gmail.com>
wrote:
> Hi Ding,
>
> I am having a problems with your code. It seems gsderiv checks of
> sigma to be "in range", but incorrectly... Also, roll.pro uses sng
> instead of signof.
>
> Thanks!
> Gianguido
>
> IDL> imgf=nonlineardif(img,sigma, 0,
> dt=0.1,ndt=20,mode='eed',scheme=scheme)
> % Compiled module: NONLINEARDIF.
> % Compiled module: EXIST.
> % Variable is undefined: IN_RANGE.
> % Execution halted at: GSDERIV 65 /Users/cgguido/idl/
> cgguido/downloaded/nonlineardif/nonlineardif.pro
> % NONLINEARDIF 505 /Users/cgguido/idl/
> cgguido/downloaded/nonlineardif/nonlineardif.pro

> % $MAIN$

Gianguido,

Thanks for reminding, you are correct, sgn.pro is a solarsoft alternative of signof.pro, in_range.pro is also from solar soft. I will add the scripts from solarsoft, as notes.

Cheers

Ding
