
Subject: Re: superresolution

Posted by [Moritz Fischer](#) on Mon, 18 Aug 2014 10:36:31 GMT

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Hi,

I'm not sure whether this suits your application, but the mathematical basis for something like that is described in

"Brown: Multi-Channel Sampling of Low-Pass Signals, IEEE Transactions on Circuits and Systems, 1982"

Unfortunately my implementation of this (related to SAR signal processing) is highly specific and barely readable, so there's no point in sharing it.

Good luck!

Am 18.08.2014 10:15, schrieb Helder:

> Hi, I'm looking into generating a higher pixel resolution image from
> a subset of images of the same object sub-pixel shifted. In other
> words, I have n-images of [nx,ny] pixels. Each is the result of a
> shift of 1/n. Do you know if there is any code out there to
> reconstruct an image of [nnx,nnny] pixels? Obviously with $nnx > nx$ and
> $nnny > ny$.

>

> I'm obviously looking into doing this in IDL, but also any info on
> how to do this in other coding languages or good literature
> references would be great.

>

> Notice that the images are generated by a pixel size limited imaging
> system and therefore appear pixellated.

>

> Thanks, Helder

>
