

Re: Image Newbie Question

Source: <http://sci.tech-archive.net/Archive/sci.image.processing/2005-12/msg00025.html>

- *From:* Jimserac@xxxxxxxxxx
 - *Date:* 7 Dec 2005 18:26:41 -0800
-

Wow, thanks everyone, I had no idea it was so difficult.

Yes, I have the original B&W print and it was I that scanned it into a JPEG.

If it is OK to post a binary in this newsgroup I will post it tomorrow.

Should I UUencode it and then just paste in here as text??

Thanks
M.

Martin Brown wrote:

> Musashi wrote:

>

>> I have a JPG of some books in a bookcase

>> (from a b&w picture taken in the 50's)

>> and I'd like to be able to recover the

>> names on the books.

>

> I hope you have the original print. If you cannot read them on there

> with an eye glass then there isn't a lot of hope for the JPEG.

>

>> When I zoom in on the jpg, the letters are too blurred

>> to read.

>>

>> Could someone point me to the correct image

>> processing algorithm to try and recover the

>> titles on the books in this jpg.

>>

>> Would it be some sort of low pass filter.

Re: Image Newbie Question

>
> Almost the opposite. The closest consumer software to doing what you
> want is an unsharp mask high pass filter. But it will amplify all the
> JPEG artefacts as well probably rendering it completely illegible.
>
> The only remote chance you have of getting some resolution back is if
> the image has very good signal to noise and is already within a factor
> of 3 of being legible. Then maximum entropy deconvolution might help if
> you can set the problem up exactly right from JPEG coefficient space.
>
>> I am a software person, so once the
>> correct algorithm is suggested,
>> I can implement it.
>
> Post the image and it may be possible to say whether there is anything
> that can be done with it. I hope you have original high resolution scan
> data rather than a JPEG – but even then you cannot expect miracles.
>
> Deconvolving blurred images is a notoriously ill-posed problem. Even
> using published algorithms it will take you a very long time to get a
> working code that makes a passable job of it on real data.
>
> Google "regularised deconvolution" and/or "maximum entropy"
>
> Regards,
> Martin Brown

• *Follow-Ups:*

- ◆ [Re: Image Newbie Question](#)
◇ *From:* Martin Brown
- ◆ [Re: Image Newbie Question](#)
◇ *From:* Martin Leese

• *References:*

- ◆ [Image Newbie Question](#)
◇ *From:* Musashi
- ◆ [Re: Image Newbie Question](#)
◇ *From:* Martin Brown

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