Subject: Re: images taken in different daylight all conatining a color reference
Posted by Jeremy Bailin on Wed, 02 Sep 2009 14:18:08 GMT
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On Sep 1, 3:24 pm, Thomas Nehls <thomas.ne...@googlemail.com> wrote:
> thanks for the hint, I checked it. Now I am in the topic.
>
> I found somebody who gives the sRGB values of the colors on the color
> control patches I photographed, that means I can calibrate the
> photographed color control patch colors all together to the "one" the
> "right" sRGB combinations, right? meaning all the color control ptches
> in all my pictures will show exactly the same colors?
>
> I found some approaches of histogram warping. I would try the
> following: cutting the photographed color control poatches, size them
> equally, then I would calculate the transformation, it would be
> different for each image.
>
> I found some papers from the mid 90ies to early 2000s discussing the
> best way to warp images, linear vs non-linear models. May be this is
> already integrated in a IDL procedure or function?
>
> then: can I apply the transformations calculated for the color control
> patches to the rest of the images? (I would have to, right?)
>
> Thanks in advance (from the non image processor and non programmer)
> Tom

Yup, that all sounds reasonable to me... I guess the key bit that's
still unspecified is how you calculate the transformation from the
patches. I don't know of any pre-existing routines for this, but it
wouldn't surprise me if they existed. We actually had a discussion
related to this back here:

http://groups.google.com/group/comp.lang.idl-pvwave/browse_t hread/thread/2118f477823ce219

...but it sounds like you're already far enough into the literature
that you know more about this than we do. ;-)

-Jeremy.