Subject: Image correction for human perception?
Posted by maye on Sat, 30 Sep 2006 20:09:26 GMT
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Hi!
We have an interesting discussion going on here about the need of correcting intensities of remote sensing data in red, green and blue filters for the perception of the human eye to create a 'TRUE' color image.
Basically, at the moment we tend to believe it's not necessary, because we have a good linear detection system (a CCD),
so all we need to correct is the filter absorption (plus the usual CCD tralala of course).
But after we have our calibrated images in the 3 colours and put this together to a colour image, why would we have to correct for the human eye spectral sensitivity, if looking at the image at the screen
(provided my display system works ideal) will automatically involve the eye's sensitivity?
Would the best way to display remote sensing data to the human eye not be, to try to show the exact same relative intensities like detected at the place of observation?
What makes us doubt is the amount of publications one can find mentioning a "correction for human eye perception" and we fear, that they cannot ALL be wrong! :)
So what do we miss? Is the problem maybe, that we only have data of 3 filters and there's of course more? But the television works like that and can create quite realistic images, so it shouldn't be the problem?
Thanks for your enlightenment!
Regards,
Michael