Subject: Intensity correction for MR images (Cohen et al)
Posted by pravesh.subramanian on Mon, 08 Aug 2005 14:18:43 GMT
View Forum Message <> Reply to Message

Hello Group,
I sincerely thank everyone for the prompt replies I have been getting from time to time.
I have been reading a paper by Cohen et al for intensity Inhomogeneity correction. It suggests these steps to implement the algorithm:

1. Automatically determine the noise pixels and fill them up with mean intensity of the non-noise pixels.
(Here, to classify noise pixels, he first smoothes the histogram with a hanning kernel, then dtermines the first max at lowest signal intensities and then calculates minimum in the lowest 15% of the intensities!)

2. smooth the image with a gaussian kernel (we could use fft to operate in k-space and quicken the process. i need to make a gaussian kernel of size [192,192]. any idea what is the function for a gaussian kernel?)

3. normalize the original image by this smooth image

Steps 1 and 2 need some more light in the right direction.

Thanks,
Pravesh