

# background subtraction in x-rays

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hello all,

i am working on an assignment which is background subtraction in digital x-rays. i am working on MATLAB and am restricted to MATLAB as my platform.

i am having quite a few issues & am actually stuck in the assignment.

i am enlisting them -->

1. though background subtraction ( BS ) seems a very common topic there is no algorithm that is clearly mentioned. most of them are vague and strictly mathematical. i would be really grateful if some1 could point out an algorithm which will help me in this respect.

2. the main problem is that BS is primarily for surveillance and hence used for motion pictures. my images are however totally static. i am using a reference image as a x-ray without a patient and then another image as my operating image which is a digital x-ray. as a result of subtraction I'm not actually getting any noticeable results.

by reading the related papers i have tried to implement an algorithm viz. HEIKKILA & OLLI on my images. i have just started out with matlab programming and am a beginner in this respect. threshold value has been assumed on a trial & error basis as there is no standard mentioned value in the algo. the problem is that i am not getting any results.

perhaps possibly because my image is monochrome or then the algorithm is not suited for such images. i am actually stuck with it and am at my wits end.

3. also what quality measures should i consider to show that i am actually enhancing the x-ray image? are there any standard parameters or then do i work on some of the statistical properties as my quality measures?

hoping that all you experienced people could perhaps have some guidelines for me or show me the way.

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d worst part is that the submission time is just around d corner.

cheers,

ANUJAN.