Kasetsart University
Department of Computer Science

Lab 2 Image Enhancement

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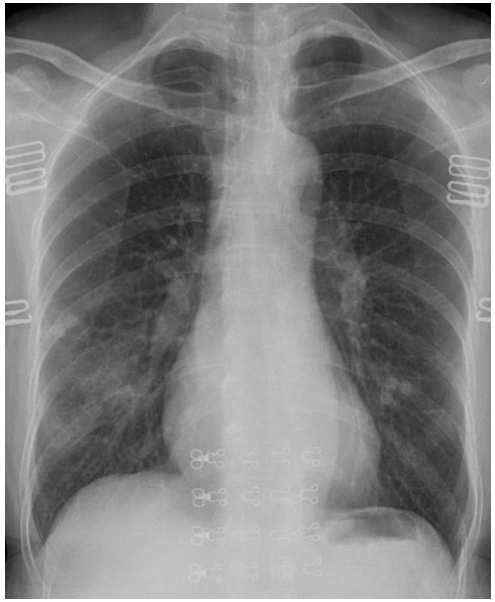
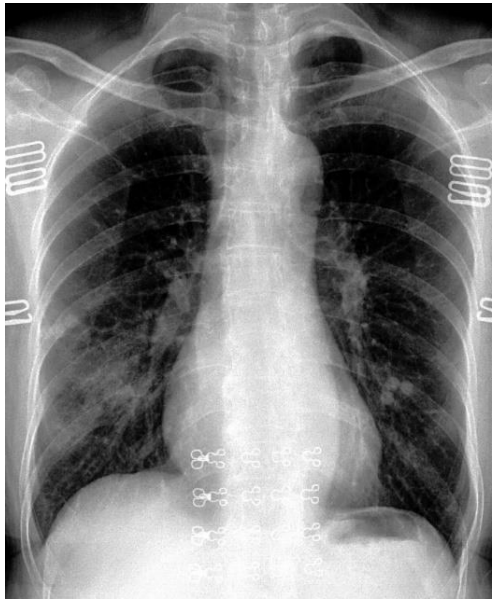
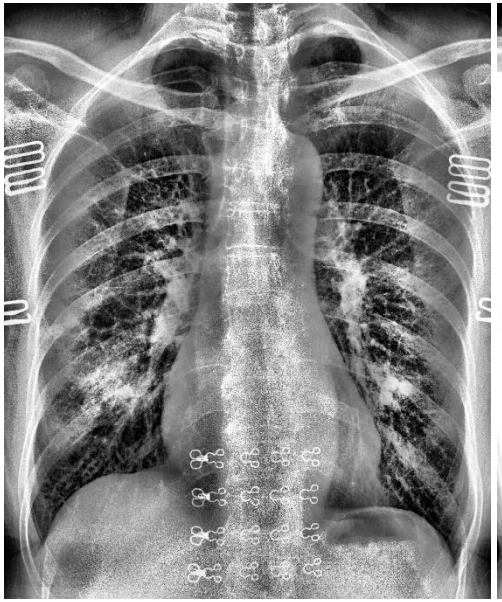
Let's Enhance!!



chest_gray.jpg





Intensity of interest is in [20, 130]

MATLAB functions	Example

`J = imadjust(I,[low_in high_in],[low_out high_out])`
 	
`J = imadjust(I,stretchlim(I),[])`
	Adjust image intensity values or colormap.
	[low_in high_in] and [low_out high_out] must be in the range [0.0, 1.0]

`J = histeq(I)`	Enhance contrast using histogram equalization

`J = adapthisteq(I)`
 	
`J = adapthisteq(I,param1,val1,param2,val2...)`
	Contrast-limited adaptive histogram equalization (CLAHE)
	Parameters:
	'ClipLimit' Real scalar in the range [0 1] that specifies a contrast enhancement limit. Higher numbers result in more contrast. Default: 0.01

`I = rgb2gray(RGB)`	Convert RGB image or colormap to grayscale

Photo Credits: https://www.itnonline.com/content/chest-x-rays-show-more-severe-covid-19-non-white-patients