

Bachelor in Computer Vision

Image Processing

Labs 3

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Morphogical mathematics

$_{\perp}$ Problem 1 $^{\neg}$

Aim: analyse the effects of the basic operators.

Don't use the matlab function, write your own code

- load the image "hubble"
- binarize this image
- study the effect of with different size of structuring elements with the erosion operator
- apply the same approach for dilatation, opening and closing
- propose a method to measure the granulometry i

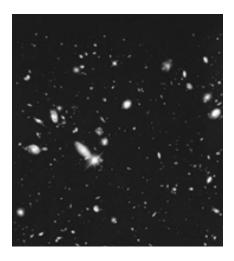


Figure 1: Hubble

∟ Problem 2 ¬

Aim: propose extensions of binary Morphological Mathematics operators

Don't use the matlab function, write your own code

- propose extensions of binary Morphological Mathematics operators to gray levels images
- propose a gradient filter based on MM operators



Figure 2: Moon