

Image Analysis

Exercise 9

6.11.2003

1. Having cross as a structural element, apply Open-Close filter, Rank 3 operator.
2. Calculate statistical maximum threshold level, below which no pixels will be filtered. Use cross as a structural element.
3. Calculate color difference between the following color samples:

RGB(0,0,0);

RGB(255,255,255);

XYZ(69.950824, 87.060511, 107.699066);

XYZ(44.027917, 39.609804, 5.326750).

Hint: Use LAB or LUV space, and use the following calculators:

<http://www.brucelindbloom.com/>

<http://www.easyrgb.com/calculator.php#Result>

4. For each sample find at least one value within JND5.
5. Define your own filter for color images.

