Computer Vision

EMARO- *European Master on Advanced Robotics*

Robotics Engineering *Master Degree*

Lab Session n. 3

Color-based segmentation

- Display the 6 images as RGB and the corresponding hue components.
- Note the variation of the RGB components and of the hue in the area of the yellow cube in the 6 images.
- Select in the image "yellow_obj1.jpg" the area corresponding to the yellow cube. In this area compute the mean value (*m*) and the standard deviation (*s*) of the hue component.
- Segment the yellow cube in the 6 images by thresholding the hue component (e.g. between *m-3*s* and *m+3*s*).
- Display the binary images corresponding to the segmentation.