CS 63500 Spring 2010 Voicu Popescu

Due: Tuesday February 1st at 6:00am

Assignment 1—A basic application

In a nutshell

Implement a basic application that loads an image, finds an object, marks the location of the object, and saves the image.

Details

- 1. Take a digital photograph of an object with a unique color, i.e. nothing else in the shot should have the color of the object.
- 2. Write an application that
 - a. Loads the image.
 - b. Finds the object.
 - c. Marks the object with a rectangle that circumscribes the object. There should be some space between the rectangle and the silhouette of the object.
 - d. Saves the image, with the marked object.
- 3. GUI
 - a. Provide a button that loads the image,
 - b. a button that finds and marks the location of the object,
 - c. and a button that saves the image.
- 4. Extra credit 3% (in percentages of total course grade)
 - a. Take a video of the object, track the object in each video frame

Turn in

- Send an email to the instructor with the URL of an archive that contains:
 - Your source code
 - Your binaries
 - Your input image
 - Your output image

© Popescu 2011