German University in Cairo
Department of Digital Media Engineering and Technology
Assoc. Prof. Dr. Rimon Elias
DMET 901: Computer Vision

Assignment 3

Stereo Vision and Disparity

Given the image provided below, you are asked to implement the disparity estimation technique discussed in class using SSD correlation. The best SSD values are stored in an output image. (Note that you may need to normalize the image to occupy the range [0, 255], window size is 7X7 and the disparity range is [0, -75, 0, 0].) [**Bonus**: Provide another image that shows the **disparity map**. Note that the bonus is worth **5%** of **this** assignment.]

Assignment Regulations

- You will work on this assignment *in teams of two*.
- The deadline is on the 10th of December.
- The assignment is to be implemented using openCV on either Java, C++, or Python.
- The image to work on are available on the assignment folder under the name of As3.jpg.