MC937 – Exercises 1

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12 de março de 2020

Exercise 1

What are the areas related to Computer Graphics? How do they relate?

Computer graphics is generally associated with image processing, computer vision, computational visualization.

The applications of these areas are mixed and extensive. There are great problems to be solved in these areas and those problems probably will only be solved by mixing these areas, such as autonomous cars or cashier-free supermarkets.

Image processing and computer graphics relate on the image itself. Analysing and correcting images by changing properties like contrast, brightness and even cropping must be considered by both areas. On computer graphics, these concepts must be used in order to create an accurate representation.

Computer vision can, for instance, make use of computer graphics to recreate the scene of given image stream, simulating and predicting changes or recognizing patterns. This will also use image processing