Universitat Politècnica de Catalunya Universitat de Barcelona Universitat Rovira i Virgili

MASTER IN ARTIFICIAL INTELLIGENCE

Computing vision

Image segmentation

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November 2016

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1 k-means segmentation

This is exercise 1.

1.1 Some subsection

This belongs to a subactivity inside exercise 1.

2 Mean-shift segmentation

The algorithm is not deterministic because at each update step the next point to update (i.e. move towards the mean of its neighbourhood centered in that point) is selected randomly. This is done in the line 47 of the provided MeanShiftCluster.m file (tempInd = ceil((numInitPts-1e-6)*rand);). This also means that two executions of the Mean-shift algorithm do not yield necessarily the same value (unless the seed of the random generator is fixed).

Appendices

A Annex

Some text in the annex.