# Segmentation Methods through the Stability of Region count in the Scale Space

## Li Yu , Adam Hoover

Abstract - In this paper we present a novel bottom- up computer vision approach . The idea is based upon quantifying the stability of the number of regions in a multi-dimensional parameter scale space. The parameters forming such a scale-scale can be threshold, region growth , intensity variance and other low-level properties . We capture this idea using a scale-space formulation to detect "stable " segmentations as local minima in the scale- space during the processing of retinal images. This method is related with and similar to perceptual organization , a middle platform originating from low level primitives , and leading to high-level recognition. Some results of images processed are also given .