



International Journal on Recent Researches In Science, Engineering & Technology

(Division of Computer Science and Engineering)

A Journal Established in early 2000 as National journal and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy.

It is an absolutely free (No processing charges, No publishing charges etc) Journal Indexed in JIR, DIIF and SJIF.

Research Paper

Available online at: www.jrrset.com

ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

Volume 3, Issue 10,
October 2015.

JIR IF : 2.54

DIIF IF : 1.46

SJIF IF : 1.329

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 .