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Resumen De Futura Investigación

The specific area in which the research will be focused is in the image segmentation field. In this field there are many algorithms which are based on different aspect related to the type of objects that make up the image. Several of the available algorithms are as follows: segmentation based on detection of white holes, growth by regions, color components of the image, the image texture objects, levels of grey, etc. Aim is to make a review of the most important methods of segmentation for a particular type of objects in an image and then improve one of these methods, so its accuracy, speed and performance is optimal. There is also the possibility of creating a new, and different type of algorithm where analyses favor such approach. Once defined the algorithm, programs and models will be implemented to test the performance of them and their applicability on the type of selected images.

Key words: Segmentation of images, algorithms for segmentation of images, models for segmentation algorithms, segmentation based on color, segmentation by region growing.

Overview of the area in which the research is to be performed

The process of segmentation of images in 2-D

The process of segmentation of images in 2-D has as starting point an image in two dimensions, in grayscales, or color. This image has as components, in the first case the lightness values of the pixels in a scale of levels of grey ranging from 100% luminosity to 0% of brightness; While in the second case, you have a set of three pixels with the RGB (Red, Green, end Blue) components of each color for each point of the image. This image needs to be preprocessed and conditioned prior to the segmentation process. The segmentation process seeks to divide the image into areas that represent the basic objects that make up the image. For this purpose there are many algorithms that assign special values of the pixels that make up each object of the image in order to mark them as belonging to the each object. Each algorithm has normally been developed to work well on certain types of images.

Key words: Image processing, segmentation, grayscale, color images, image objects.

Congresos y revistas internacionales para publicación.

Congresos:

1.

a. Nombre completo: **ICIP 2016 - 2016 IEEE International Conference on Image Processing (ICIP)**
b. Acrónimo: **ICIP 2016**
c. **URL:** **http://conference.researchbib.com/?action=viewEventDetails&eventid=514&uid=r27668**
http://www.icip2016.org
d. Fecha límite de envío: 2016-02-15
e. **Procedimiento de envío:**
f. **Organización o editorial que organiza el congreso o gestiona la publicación:** Phoenix, USA - United States of America 2016-09-25

2.

a. Nombre completo: **CGMIP 2015 - The Second International Conference on Computer Graphics, Multimedia and Image Processing (CGMIP2015)**
b. Acrónimo: **CGMIP 2015**
c. **URL:** http://sdiwc.net/conferences/cgmip2015

http://conference.researchbib.com/?action=viewEventDetails&eventid=45183&uid=r1b547

d. **Fecha límite de envío:** 2015-09-29
e. **Procedimiento de envío:**
f. **Organización o editorial que organiza el congreso o gestiona la publicación:** 2015-10-29 - 2015-10-31 Universitas Siswa Bangsa Internasional, Indonesia

Revistas:

1.

a. **Nombre completo:** International Journal of Image Processing (IJIP)
b. **Acrónimo:** (IJIP)
c. **URL: http://www.cscjournals.org/journals/IJIP/call-for-papers.php**
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