

## **Automatic Evaluations of the Results of Segmentation**

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### **Abstract**

Given the number of segmentation methods developed, the problem of assessment" has become crucial. Several evaluation methods have been developed in recent years; they can be divided into two broad categories according to whether they use a reference. Despite the large number of methods developed the relative effectiveness of the proposed criteria and their application contexts, remain unknown, especially in the case of textured images. The method developed is based on Zernike moments which take into account the presence of texture in the image. Unlike existing methods, such as methods of yasnof for evaluation in the region, intra-interln methods interln, intraln of Levine and nazif, pratt, methods roldan and Hausdorff, our method allows the evaluation of textured images and it gives the possibility to use a single ground truth for different positions of objects in the image, it can also be used for different types of segmentation results namely segmentation of region and contours. testing the algorithm on the basis of images of 950 images showed very interesting and promising results with a correct classification rate of about 80%