



## **TEMPLATE MATCHING THROUGH IMAGE SEGMENTATION REGION MERGING APPROACH**

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### **Abstract**

Template retrieval plays an important role in an extraordinary number of multimedia applications which serve human society. In this manner template matching is a fundamental ingredient for image retrieval. Since a generic graph-based retrieval scheme working in every situation can be quite difficult to implement due to the presence of complex scene. This paper investigates to deal with such problems and focuses first: To extract template from an image and second part is how to implement the template matching algorithm effectively, logically and accurately. It begins with the innovative concept of initial low level segmentation of input image, which are used to construct different region merging models on the basis of connected regions. Using the concept of region merging models we will proposed an algorithm for template matching.

**Keywords and phrases:** template matching, region merging, region growing, initial segmentation.

