ABSTRACT

Problem in multiresolution at taking pictures for panoramic view in large scale has commonly

happens in daily life caused by limitation in position to take pictures. This kind of things forced

user to take pictures several times then manually registered the pictures. After that, in taking

pictures, camera also has its own limitations that make some area in pictures get some blur. This

also demand user to taking pictur several time and try until they get the correct one.

In this final project, there is some solution to registered pictures that separately different

and combine informative values in pictures combination. Using wavelet decomposition method

will help to its pre-processing the image so at the processing, the system will easier to process. In

same way both for registration and fusion, wavelet decomposition will decompose the image to

wavelets. For registration it will help to find the control points. While for fusion, it will help to

find the more informative point.

From the system testing, there are some anomaly that shows color intensity of image

from its histogram related to the system performance. For image data that have a dark color

intensity, the accuracy and processing time is better. The system also shows some optimal time

and accuracy in registration process when use some combination of parameters. While in

incorrect parameters, registration will failed or even error in concept principal.

Keywords: combine image, wavelet, image fusion, image registration

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