TEXTURE TRANSFER USING TEXTURE SYNTHESIS METHODS

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ABSTRACT

The field of digital image has rapid development, particularly in the field of image restoration or improvement of the image. Many can be used to restore or repair the damaged image, one of which is the texture transfer. Texture transfer takes a texture and puts them into another object. One application of texture transfer is to repair the damaged image texture.

This final task to discuss how the workings of the texture transfer using texture synthesis methods. Reasons using texture synthesis method because the algorithm is simple and easy to implement. Texture synthesis methods here do play a role in the process of drafting and refining the pixel blocks of an image texture to another texture image. After the error values obtained correspondence map, texture synthesis is then performed using the base patch texture synthesis algorithm of image quilting, to arrange blocks of pixels vertically and horizontally refining the boundaries between the synthesized block. Making restoration software texture synthesis method using programming language Visual C#. The program
can produce a good output image if the damage deterministic form. However, the stochastic image, the improvement is not so satisfactory when compared with the results of improvements in deterministic image. Of the trial is conducted, texture transfer can also be used to restore the image of a stained deterministic texture.

*Keywords: Texture Transfer, Texture Synthesis, Algoritma Image Quilting.*