



PROJECT REPORT
PSNR Comparison of Bilinear and Bicubic
Interpolation for Image Enlargement

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APPROVAL AND RATIFICATION PAGE

PSNR Comparison of Bilinear and Bicubic Interpolation for Image Enlargement

by

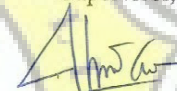
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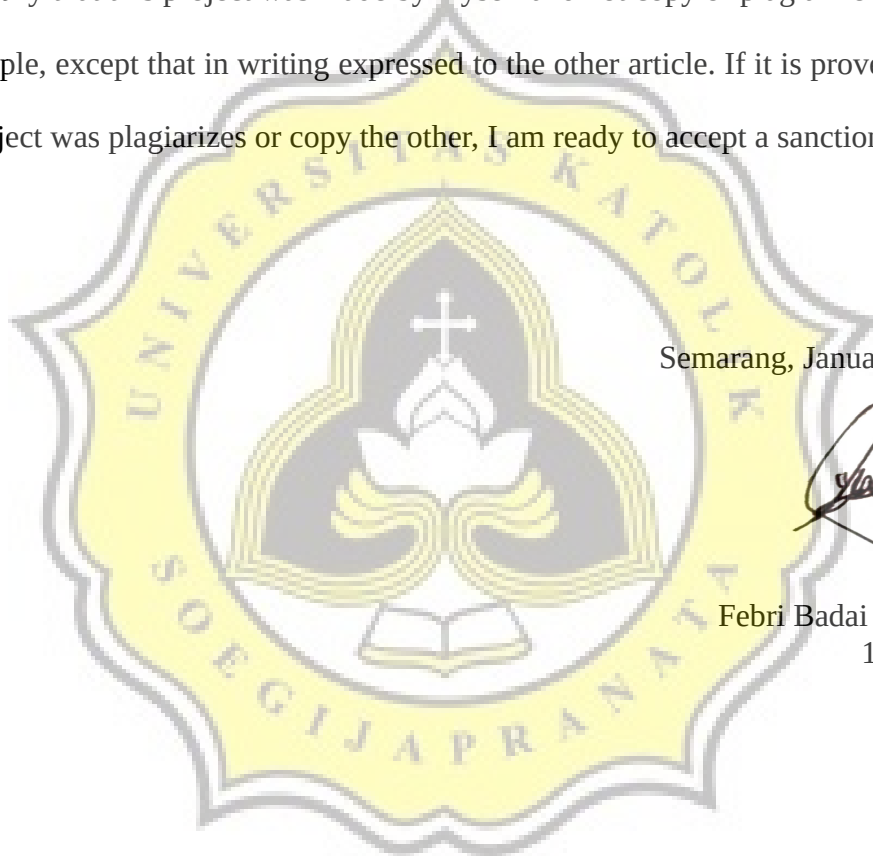
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A handwritten signature in black ink, appearing to be 'Febri Badai Dirgantara', is written over the right side of the UKS logo.

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ABSTRACT

Various types of Image Processing such as Image Enlargement can be done by computer. Enlargement of an image is needed so that someone can see and observe the image clearly and detail. Image Enlargement can be done by interpolation method, and the quality of the resulting image is very dependent on the interpolation method used.

There are several interpolation method for image enlargement, such as Bilinear Interpolation and Bicubic Interpolation. In this project will compare Bilinear Interpolation and Bicubic Interpolation to determine the best method for Image Enlargement.

This Project use java Programming. The data used 30 images. Then the images will be enlarged by 2 methods, Bilinear Interpolation and Bicubic Interpolation. In this project using several enlargement scale, 2x, 4x, 6x. Then the next step is to determine the PSNR value of the processed image to determine which image quality is better. The higher PSNR value, the better method.

Keyword: Image Enlargement, Bilinear Interpolation, Bicubic Interpolation, PSNR

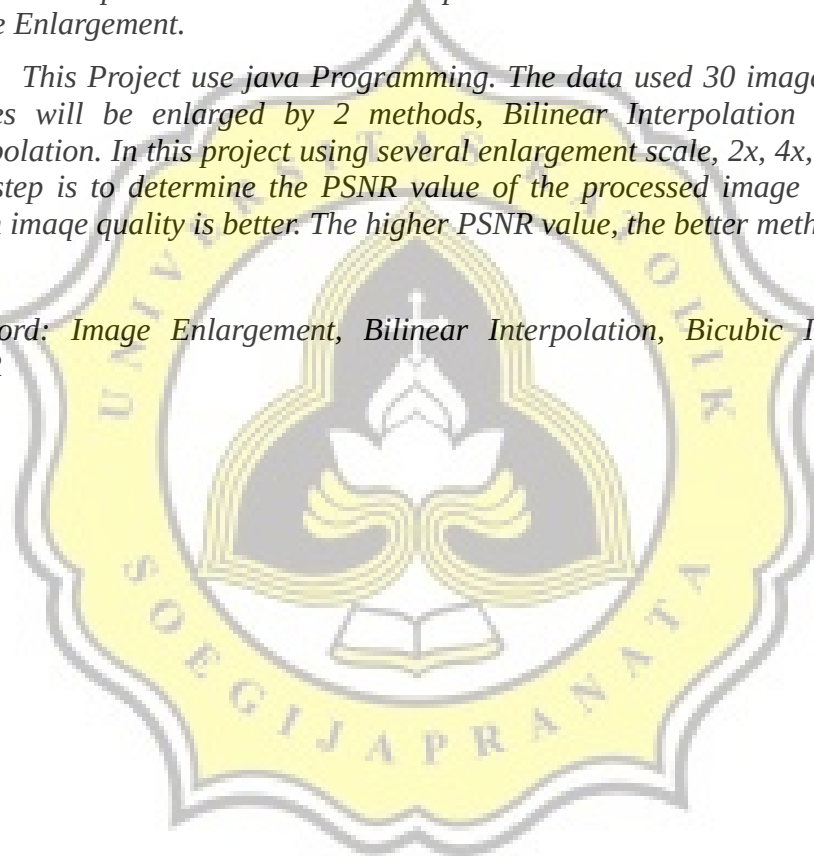


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