



PROJECT REPORT
SIGNATURE VERIFICATION USING ENTROPY
VALUES

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APPROVAL AND RATIFICATION PAGE

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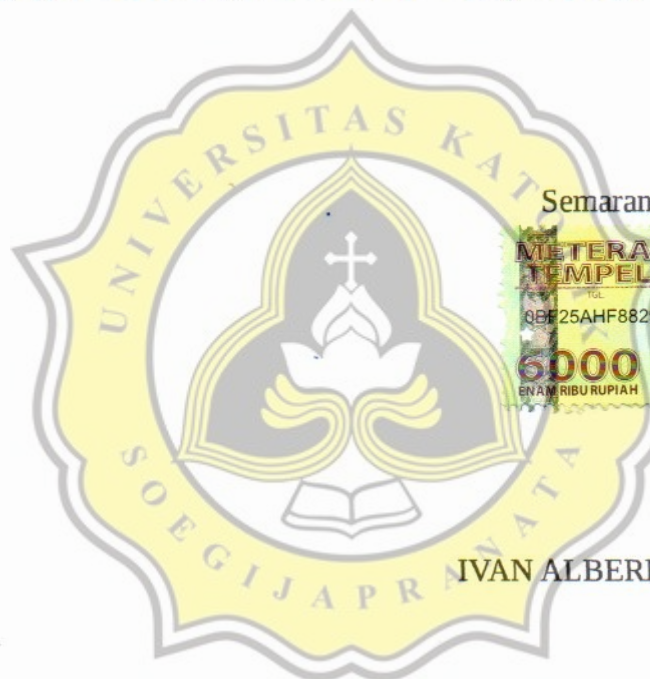
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Sincerely



IVAN ALBERN RHEMAKRISNA

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First of all, thank you to the Lord Jesus Christ for His blessing, so that I can finish my final project successfully. The final project is a requirement to take a the Bachelor of Computer Science Exam in the Informatic Engineering Study Program at Soegijapranata Catholic University Semarang

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Semarang, January 21, 2021

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ABSTRACT

Signature is the most crucial and important human identity. There are many falsification of signatures that occur in existing institutions. This research is shown to analyze an original or fake signature based on entropy value and analyze the type size of ballpoint pen and the variation in each person's signature affects the entropy result or not.

The first step is to collect signature samples from respondent and then convert them to digital image with a scanning process. Then converting the digital signature image to gray scale and then converting it again into binary. Then will calculated the entropy value of each image and it will be tested with different types of pen sizes and variations in each person's signature effect on the entropy value results.

The entropy values will be compared and analyze between the training data, original signature data, and fake signature data. The time process of the image will be showed too. The analysis is using precision recall, where the result of the accuracy is 60,3 %.

Keyword: Signature Verification, Image Processing, Entropy, Image Conversion

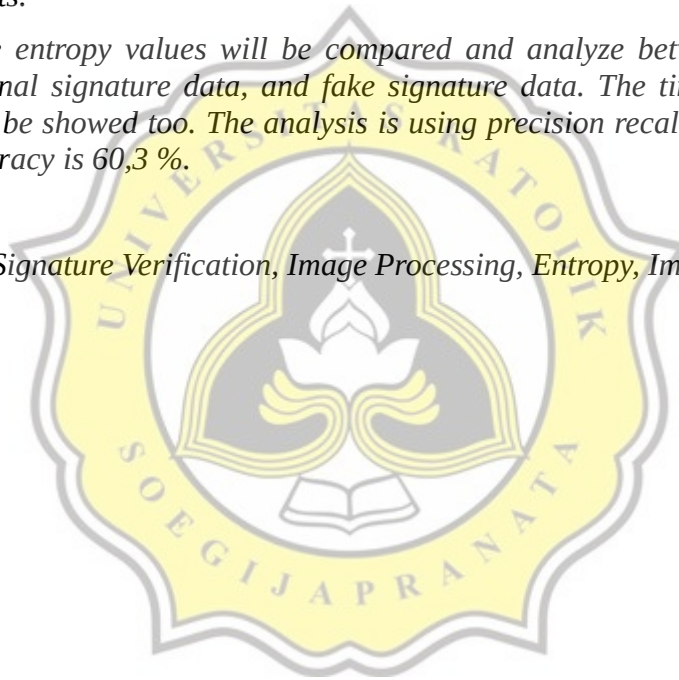


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