

LAPORAN SKRIPSI

**GENDER CLASSIFICATION BASED ON EYE IMAGES
USING CONVOLUTIONAL NEURAL NETWORK (CNN)
ALGORITHM**



IGNATIUS OKTAVIAN ALDY

18.K1.0025

TEKNIK INFORMATIKA

ILMU KOMPUTER

UNIVERSITAS KATOLIK SOEGIJAPRANATA

SEMARANG

2025

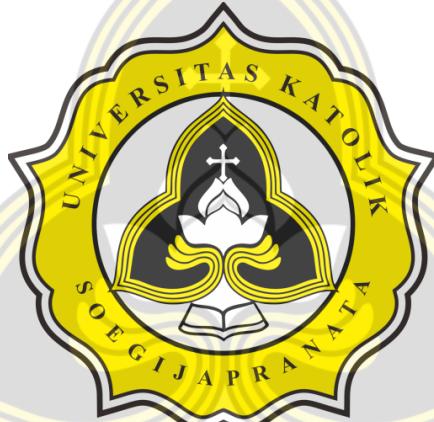
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Diajukan dalam Rangka Memenuhi

Salah Satu Syarat Memperoleh

Gelar S.Kom



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ABSTRAK

The eyes are one of the most important parts of the human senses. Generally, human eyes differ in shape and color. Through the eyes, it is sometimes also used to differentiate male or female gender. In this study the author conducted research on distinguishing human gender through the eyes using the CNN algorithm and using the "Orange" application. After conducting research using the CNN algorithm and the "Orange" application, the author obtained very satisfying results. The figures obtained by the author when using the CNN algorithm were 95% compared to previous research which only managed to get a value of 92.5%. During the research, the author also compared it with the Naïve Bayes algorithm as a comparison algorithm. When the author conducted research using the Naïve Bayes algorithm, the author only got a score of 85%. In this study the author concluded that the CNN algorithm is very capable and very good at recognizing and classifying human gender through the eyes.

kata kunci :

CNN

detection gender

Orange

eye

Naive Bayes

human