ABSTRACT

Nowadays, people use their hobby as a media for their business. Especially as a bird tamer, the most favorite one called lovebird. Beside of that, lovebird have an amazing voice and stunning color. Recently, there is a lovebird contest where the size of the bird head, color, chest, and etc being one of the scoring in that contest. Indonesia is lagging behind other counties that already made lovebird for a beauty contest. Assessment was done by some my judges with the standardization assigned by lovebird indonesia community forum .Digital image processing needed to make the jury more objective assessment results.

On this final assignment there is a classified quality of lovebird discussion based on their head size, color, and chest with digital processing. Local binary pattern (LBP) Is one of the method who can help us to find the characteristic color. For the classification process we are going to use fuzzy logic method. Where the value of each data consist of 15 training and 30 sample.

Result of this final assignment obtained 93.3% accuracy rate with the computing time 20.7627 seconds for head. 83.3% for color with computing time 55.787 seconds , and 80% for head and color with computing time 44.9024 seconds . We hope with this capable of system can help the judges on the contest and the lovebird fans to make this program as a standard scoring qualification of lovebird contest.

Keyword: lovebird, local binary pattern, fuzzy logic