

ABSTRACT

Modeling is an activity in the field of art that involves a lot of walking style. This field of art has a theory in walking so it will create regularity in walking compared to the common person's walk. The regularity of this typical model walk is used as a parameter on image-based processing systems on video to measure the accuracy of a model walk on a catwalk.

In this final project, we will design an accurate assessment tool for walking modeling school. The system uses DWT (Discrete Wavelet Transform) and LVQ (Learning Vector Quantization) which is useful for designing video or image analysis scenarios so that it can detect human body motion and draw conclusions on the movement characteristics of a model's gait. This simulation is made with the aim that school model can give an assessment of how to walk a person without having to give a direct example of how to walk the style of a good model and true.

The system has a performance with an accuracy of 81.8182% obtained at the level of decomposition that is level 2 and the subband LL using 14 samples of training data and 11 test data. Performance of the system is achieved so that the system can identify the gait with the optimal accuracy and able to provide information how exactly the individual walk.

Keyword : *catwalk, modeling, subband, DWT, LVQ*