

## **Abstract**

*Culture as identity can include folk songs, traditional weapons , musical instruments, traditional houses, traditional dresses, and traditional dance. Traditional dance is an art culture of Indonesia as a symbol in each region. Dance is an art movement that gives beauty to everyone. In Indonesia there are many types of traditional dance that has spread throughout the country, so that people would be hard to recognize the type of traditional dance.*

*In the study, constructed a system application for learning the art of Traditional Dance. Each user will be motion captured by kinect sensor in realtime, and generate skeleton joint every frame. Results of those frames are normalized in advance, and are processed to be recognized using the K-Nearest Neighbor (KNN). The output of this system produced a score of recognition accuracy the user perform a dance.*

*This KNN method can be applied to the human body motion recognition with obtain the average computation time 136,5787037 ms, and the recognition accuracy up to 97%.*

**Keyword :** *Tradisional dance, Kinect, K-Nearest Neighbor*