

## **Abstract**

Human motion capture is a process for tracking of human body movement. This process can be either real-time analysis or batch analysis. Human motion capture is a technique widely used in computer graphic related area such as animation, game and virtual reality. However, present techniques are very complicating, expensive and demand for specialized hardwares. In this paper, the newly developed method of human motion capture is proposed. The proposed method is used to estimate the human's horizontal orientation. This technique is less complicating and less expensive than the present techniques. The asymmetrical shaped sign attached on the human body is captured and then preprocessed with image processing techniques. The preprocessed informations are then passed to the neural networks for recognizing the human's horizontal orientation. In case of female model, the experimental results show that the average accuracy of 10 degree scaled horizontal orientation is 72 percents and the average accuracy of 15 degree scaled is 100 percents. In case of male model, the experimental results show that the average accuracy of 10 degree scaled horizontal orientation is 88 percents and the average accuracy of 15 degree scaled is 100 percents.