

**ROBUST SEGMENTATION AND PART TRACKING
IN HSV/YCbCr COLOR SPACE**

By

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FINAL PROJECT REPORT

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in Partial Fulfillment of the Requirements
for the Degree
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CERTIFICATION OF APPROVAL

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CERTIFICATION OF ORIGINALITY

This is to certify that I am responsible for the work submitted in this project, that the original work is my own except as specified in the references and acknowledgements, and that the original work contained herein have not been undertaken or done by unspecified sources or persons.

Norman Naim Muhamad Rani

ABSTRACT

RGB Color Space is widely used for face segmentation in recent years. However, the RGB color space is not very much friendly with face detection based on skin color classification. In this project, algorithm for a robust segmentation in YCbCr or HSV color space to segment video images for purposes of tracking in stereo vision tracking system are performed. The system developed is able to segment video images of interest which is the human body using a web camera. The system will use robust segmentation and part tracking in YCbCr or HSV color space. Upon segmentation, the system is able to track the various segments to be tracked individually or as a group to correctly identify the tracked target.

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