URN etd-0407109-183724-2043
Author Tsung-Hua Yeh
Author's Email Address No Public.
Statistics This thesis had been viewed 55 times. Download 25 times.
Department
Year 2005
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Application of Web Camera in Specific Fingertip Trajectory Pattern Recognition
Date of Defense 0000-00-00
Page Count 44

Keyword
Image Extraction
Image Segmentation
Fingertip Trajectory
Markov Model

Abstract
The traditional method of image extracting used a special sensor equipment in the past. It often causes the step of image extracting heavily and complicatedly, and invests a large amount of fund. It is unstable and distinguish the result limitedly for the extracted image. Along with internet development, the Web-camera uses generally on the different level, so this research utilizes the Web-camera equipment to record the dynamic fingertip trajectory, and combines the reference value of the skin histogram, image cutting window, and the k-curvature algorithm to find out the correct fingertip trajectory coordinate dynamically. Finally, it uses the markov model to match the fingertip trajectory, and develops the specific fingertip trajectory pattern recognition system. The experiment, result show that the recognition rate is up to 70% for five specific fingertip trajectories.
Advisory Committee Hong-De Chang - advisor

Files etd-0407109-183724-2043-001.pdf

indicate access worldwide
Date of Submission 2005-01-01