URN etd-0407109-183722-1842
Author Yong-Han Chen
Author's Email Address No Public.
Statistics This thesis had been viewed 41 times. Download 0 times.
Department
Year 2005
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Approaches to the Guiding Service System of An Intelligent Shopping Robot using Color Sign Recognition Techniques
Date of Defense 0000-00-00
Page Count 75
Keyword
color Recognition
sign
design
system
characteristic distinction

Abstract
This thesis presents the design concepts on customer guidance services provided by an intelligent shopping service robot. It aims to reduce the cost of manpower, moreover, to assist the customer in finding and reaching her/his desired shopping area. As there is a sign is detected by color symbol recognition system of the robot, the system will make sure where the robot stays now, and then decide where the robot should lead the customer next, according to the meaning of the sign. Since the image of a sign might be incomplete or deformed because of people or some objects obstructing the view of the robot. That is, the thesis presents the specified designs on the signs, the color recognition methods for deformed symbols, and some efficient solutions of characteristic distinction and identification. From the experimental results, one can see that the proposed robot indeed performs guiding services by recognizing the signs in a complex shopping environment.
Advisory Committee - advisor

Files No Any Full Text File.
Date of Submission 2006-07-26