URN etd-0407109-183717-1396
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Statistics This thesis had been viewed 50 times. Download 9 times.
Department
Year 2006
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Analysis of Cursor Supporting Function in a Positioning Task of Graphical User Interface
Date of Defense 0000-00-00
Page Count 52
Keyword
No Any Keyword Information.

Abstract
The Graphical User Interface (GUI) has been widely adopted due to its advantage over other interfaces (i.e. Dos).However, the heavy and complicated positioning tasks generate whether mental or biological problems among users；accordingly, focusing on reducing the user’s mental or biological workload in a daily usage of a Human-Computer Interaction task has been a well attentiveness matter.
This study exams two cursor-supporting functions, jumping and gravity, in a mouse operation. The jumping function is designed to move the cursor to a target instantaneously when the cursor reaches around it, and the gravity function is designed to move to the cursor to a target gradually. The performance of target positioning time and accuracy of the functions were measured and compared with the normal condition (i.e. with no function) in an experiment.
The result revealed that the jumping function had an advantage in positioning time and accuracy over gravity function and normal condition. In the jumping function, along with the activation area set to be 110×50 pixels, could reduce the positioning time(mean=1023.82) up to 15%, also lessen the errors(mean=0) up to 50%.
Advisory Committee - advisor

Files etd-0407109-183717-1396-001.pdf

indicate access worldwide
Date of Submission 2007-07-03