

컴퓨터 마우스를 이용한 포인팅 작업에서 커서 속도의 특성  
(Characteristics of Cursor Velocity in Pointing Task  
With a Computer Mouse)

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ABSTRACT

Predicting user's intended target in the computer display can improve the human performance in the human-computer interaction. An analysis of characteristics of cursor velocity in pointing task with a computer mouse can provide insights into the method of predicting user's intended target. In the experiment, subjects used a computer mouse to move a cursor over different distances from a home position in the left corner of the screen to targets of different widths, situated to the right of the home position. We investigated the displacement from the position whereon maximum velocity occurred to the target. The maximum velocity occurred at 43.73mm from the target, and 43.06% of the total distance from the target. While target width affect neither the maximum velocity nor the position whereon maximum velocity occurred, target distance affect both of them. The result of this study can be used to develop an algorithm for predicting user's intended target in the human-computer interaction..

*Keywords* : mouse, cursor, cursor velocity, human-computer interaction