

Seminar Series

**Spatial stimulus-response compatibility for hand and foot controls with visual signals in the vertical plane**

by

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**Date:** October 2, 2009 (Friday)

**Time:** 13:30pm

**Venue:** B5-307, 5/F, Academic Building

**ABSTRACT**

Foot-controls are not as widely employed in industrial applications as hand-controls are. Reassigning some controls to feet would leave hands free for tasks demanding higher precision and dexterity. In this seminar, in response to visual signals in vertical plane, the choice reaction performance will be presented for 38 right-handed and right-footed participants in a four-choice compatibility task involving hand- and foot-controls. The result will show a strong spatial stimulus-response compatibility-effect in the task as revealed by the significant interaction between the visual signal position and response key position. This effect is stronger in the vertical (up/down) than horizontal (left/right) direction. The subjects responded slightly faster to the visual signals in the top-right than in the other three positions.

**BIOGRAPHY**

Ken Chan received his BEng and MPhil degrees from the Department of Manufacturing Engineering and Engineering Management of City University of Hong Kong in 2000 and 2003, respectively. He is currently a PhD student in the same department, working with Dr. Alan H.S. Chan in the field of human-machine interface design.

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*All are welcome!*