

Upper-body interactive rehabilitation system for children with cerebral palsy: the effect of control/display ratios

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Auteur	Yamaguchi, Takehiko [1], Richard, Paul [2], Veaux, Fabienne [3], Dinomais, Micka�l [4], Nguyen The Tich, Sylvie [5]
Pays	France
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R�sum� en anglais	We have developed a virtual reality rehabilitation system using upper-body interaction with Microsoft KinectTM. With the use of KinectTM , the system enables a patient a full-range of avatar movements to adapt the Control/Display (C/D) ratio of a limb's position in 3D space. In this paper, we have explored the effectiveness of C/D ratios in our prototype application to analyze user performance, work load, and user enjoyment with university students without motor impairments. Our findings suggest that the C/D ratio is related to task difficulty, movement strategy, and user motivation.
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Liens

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- [2] <http://okina.univ-angers.fr/paul.richard/publications>
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- [4] <http://okina.univ-angers.fr/m.dinomais/publications>
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