



Analysis of Arm Movement Strategy in Virtual Catching Task

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Auteur	Yamaguchi, Takehiko [1], Ishiura, Naoki [2], Richard, Paul [3], Foloppe, Déborah Alexandra [4], Veaux, Fabienne [5], Dinomais, Mickaël [6], Nguyen The Tich, Sylvie [7]
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Résumé en anglais	In this paper, we explored how the arm movement pattern as well as the related strategy of the children with Cerebral Palsy (CP) and the healthy children can be changed in the virtual catching task on a previously proposed rehabilitation system. We recruited 50 healthy children from elementary school, and 3 children with CP as subjects to classify their arm movement pattern/strategy. As a result of the classification, we identified three arm movement stages : Initial position, Reaching path, and Waving form, as well as movement pattern strategy under each movement stage. Based on the classified pattern, we compared the differences in the time series changes of movement strategy between healthy children and the children with CP. The results show there is a significant difference in the strategy of arm movements in the Initial position between healthy and CP children.
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Liens

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