

UC Merced

Proceedings of the Annual Meeting of the Cognitive Science Society

Title

Jumping in Japanese: Converting linguistic instructions into physical performances

Permalink

<https://escholarship.org/uc/item/36g747c1>

Journal

Proceedings of the Annual Meeting of the Cognitive Science Society, 39(0)

Authors

Fukada, Chie

Kida, Noriyuki

Hagihara, Hiromichi

et al.

Publication Date

2017

Peer reviewed

Jumping in Japanese: Converting linguistic instructions into physical performances

Chie Fukada

Kyoto Institute of Technology

Noriyuki Kida

Kyoto Institute of Technology

Hikomichi Hagihara

Graduate School of Human and Environmental Studies, Kyoto University

Takatsugu Kojima

Shiga University of Medical Science

Abstract: This study explores the difficulties in physically realizing linguistic instructions concerning the action of jumping. We carried out a questionnaire on the understandability and physical feasibility of various jumping actions in Japanese, and then conducted an experiment in which participants were asked to jump according to these instructions. After the physical performances the participants were asked to rate the easiness of the actions in a second questionnaire, and the results of the two questionnaires were compared. The results show that the understandability of the instructions and the participants' beliefs about the physical feasibility of the instructions were closely correlated. However, the results of the two questionnaires did not correlate. The results suggest that although participants believe they can convert jump instructions into physical performances if the instructions are easy to understand, there are some gaps between the understandability of the linguistic instructions and the physical realization of them.