

# Development of a glove-type input device with the minimum number of sensors for Japanese finger spelling

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## ABSTRACT

A glove-type input device, which can measure hand postures of human beings directly, is one of essential device to develop Virtual Reality environment. The authors have been developing a data-glove which would be able to capture hand postures according to user's demand with the minimum number of sensors. Our previous research estimated the data-glove with six sensors could measure all hand postures for Japanese Finger spellings. Thus, this paper proposes a prototype with six sensors and evaluate whether the prototype glove sensor can distinguish all hand postures of Japanese Finger spellings. This evaluation indicated that data-glove with fewer sensors than conventional number of sensors could distinguish hand postures exactly.

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**Full papers will be published in the Conference Proceeding s and will be available to delegates at the conference on Sept. 10.**

**Full papers will be released on-line in the ICDVRAT archive on March 15.**