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Abstract
The sign language consists thousands of words. If they are not classified, we do not know how to store these thousands files in one database. The computer needs a lot of time to retrieve the words we need. Currently the sign languages in the world are classified by words, contexts, etc. and the current classification is no good to computerization. The reorganization of sign language is based on the methods with which the sign language data are collected. There are two kinds of the method. The direct method takes a lot of time. And the method of using location-sensitive equipment is very complicated, which must be operated by specialists. This study adopts a three-step classification to classify the sign language vocabulary. Firstly, according to the initial movement of the hand gesture, there are three primary classifications, in right-hand, left-hand, and both hands. Secondly, based on the initial hand gesture position, further divide the three categories, in the first step, into eight groups respectively. This is called Set Area Group. Thirdly, according to the times of the turning points that the hand gesture makes and its position, divide the eight groups in more details. The database for this classification uses the application of motion vector in the image communication system made by NTT, and the sign language database, KOSIGN V2, which has had 1082 sign language words, including finger words for sign language. As a result of in Japanese study time and in Japanese publication date relations, in addition hardware equipment influence and so on factor. Only extracts 100 sign languages words to do for this classification research. The success in 100 sign languages words, can individually classify 96 sign languages words. The findings shows, this research classification, make the sign language database a detailed classification.
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