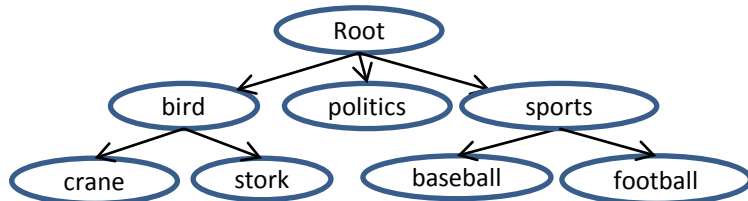


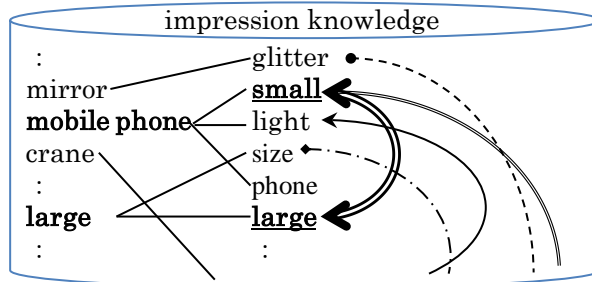


Construction of Impression Knowledge from Words

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(a) Example of the usual conceptual knowledge



(b) Example of constructed impression knowledge

Fig. 1 Outline of impression knowledge

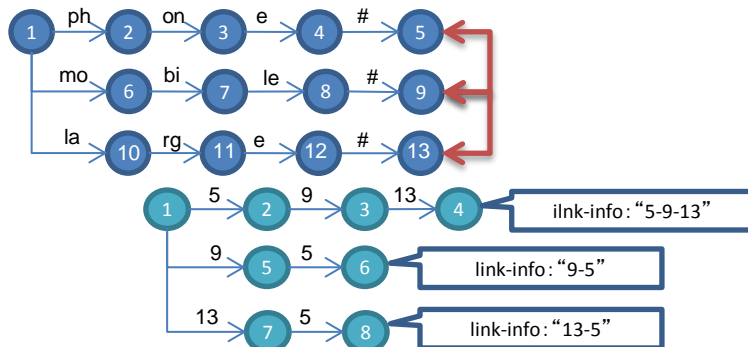


Fig. 2 Dictionary structure of impression knowledge

Content:

The technology that correctly understands the demand of human is important for the achievement of a man-machine interface with kindness to the person. The semantic understanding is processed by constructing the knowledge of the concept base, ontology and so on in the field of natural language processing. For example, "The stork carries" becomes "<bird>+(carry)" by acquiring the semantic concept, however, in this case, it is thought that "{happiness}+(carry)" is correct understanding. Thus, an interpretation different from the meaning of the surface is needed to understand the meaning from metaphor, metonymy, onomatopoeia and so on. The sensibility and the impression should be stored as knowledge.

This research aims to understand the intention by constructing the impression felt from words as impression knowledge. The constructed impression knowledge connects with words and the impression as shown in Fig. 1(b). To store these in the dictionary as the indexes, the dictionary structure shown in Fig. 2 is constructed.

Keywords: impression knowledge, knowledge dictionary

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