

Natural Language Processing

Machine Translation

Japanese Language Input

HI in Document Processing

Language Service Infrastructure

Academically, natural language processing is the field where computers try to learn the meaning of language, however, its application areas are developing in diverse ways. The most important application in natural language processing is machine translation. A study to understand the meaning of language and express it in another language, was carried out by M. Nagao with a pioneer spirit, who proposed a machine translation system making use of analogy, on which many studies have been carried out worldwide. As for Japanese language input, the following studies were worthy of remark: the study by M. Morita, et al., about ergonomically-designed keyboard arrangement, the study by N. Shimomura, et al., which built a comprehensive basis including input/output for Japanese processing, the study by M. Doi, which developed the structure and format of documents from the standpoint of user-friendly documents, and the study by T. Ishida, et al., which realized multiple-language service infrastructure for sharing global language resources in the networked era.