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# An Automatic Editing System of Meeting Announcement

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**Keywords:** Information extraction, Information retrieval, Information complement, Information editing, Hierarchical structure of information.

Now, the Internet has spreaded out widely, so the information which can be obtained through the Internet becomes enormous. The advantages of Internet are the frequent renewal of information, real-time communication and quicker information acquisition than other media. Users are able to exhibit their own information easily through Internet. Internet has more possibility because the conventional media are not comparable to Internet in the field of informational diversity.

Thus, the Internet has advantages and new possibilities, but it has the following problems which the conventional media do not have.

- The acquisition of necessary information is difficult.
- The structure, the design and the display of information are not standardized.

The first problem is that information on the Internet is not organized as a whole, it is rather scattering. For example, information about certain car is introduced at the manufacture's homepage on World Wide Web (WWW), at various unofficial homepages, and in the thread of the specific newsgroup. The second problem is that searching certain information is difficult, because many pages are edited appropriately; there is no compulsory standard styles for web pages which make people search desired information easily. There has been a lot of researches that make effective use of information on the Internet. In this research, I concentrated on information on meetings in the Internet. Many people can obtain a lot of information through Netnews.

But it is not easy for user to use the News Reader which is necessary for reading Net News, because it is not convenient enough function for user. Therefore, automatic generation of digest of articles on Net News fj.meetings was studied already.

The above research extracts only essential information summary from each article, edits it by date order, and presents it as digest. Although information is extracted in sufficient accuracy for practical use, sometimes digest is not complete because original articles lack of necessary information, such as the place information. Therefore, in this research, the system edits information suitable to a demand of a user.

In the meeting announcement articles, all information required for generating digest may not be described. In this research, the system searches WWW and complements the necessary information for the digest.

This system consists of the following four modules:

**Information extraction** The module extracts summary information from the meeting article in fj.meetings.

**Hierarchical structure analysis** The module changes each summary information into an expression divided with the degree of details.

**Interface** The module generates the suitable digest to a demand of a user.

**Complement of insufficient information** The module which searches WWW, find necessary information and complements the lacking part with the found information.

The information extraction module is based on the previous study. In this research, I improved it by using a new style information. Hierarchical structure analysis module divides the summary information according to the informational degree of details. It changes summary information into the internal structure that can be easily used by interface module.

The interface module determines the suitable digest form using the retrieval condition and commonsense.

The complement of insufficient information module complements necessary information for making digest by searching WWW and find necessary information and complements the lacking part with the found information.

In this research, I experimented which interface module can generate the suitable digest to a demand of a user by using an expression divided information with degree of details. and I experimented to complement necessary information by using URL link from search engine Goo.

Consequently, these modules generate the meeting information digest in high quality. Moreover, if the summary from the news article is insufficient, the system complements it by using information extracted from WWW.