Michal Ptaszynski, Pawel Dybala, Wenhan Shi, Rafal Rzepka and Kenji Araki

II. Emotive

Ideas for Using Large-Scale Corpora to Improve Verification of **Emotion Appropriateness in Japanese**

ABSTRACT

PROTOTYPE METHOD

We present a set of ideas for improving the verification of emotion appropriateness in Japanese language. Emotion appropriateness verification is a new method for discovering not only what are the emotions conveyed by a user in an utterance also whether they are appropriate for the context they are used in. We present ideas to improve this method with the use of several corpora. The corpora we plan to use are Amazon reviews, Web as corpus and two corpora of natural conversations to improve the method and provide conversational strategies for implementation of the method into a conversational agent.

荒木研究室

ARAKI LABORATORY

II. UPDATING DATABASE OF EMOTIVE EXPRESSIONS

1. REFINING EMOTIVE EXPRESSIONS:

-Check the concordance (hit rate) of every emotive expression from the data-base in Amazon and all three corpora. **Emotive expression** X₁ : "*kandou*" [Excitement] Corpus Corpus amazon.com Emotive Corpus expressions database -Recheck on the whole Web. -Compress the least frequent Out-of-date into "Out-of-date" folder (used WWW) in processing older texts). 2. EXPANDING EMOTIVE EXPRESSION DATABASE: -Extract syntactical patterns of emotive expressions from emotive sentences: kimochi ii hi da na Kyou wa nante today:THEM [e1] [X1:joy] day:OBJ [e2] **[e**3] Today is such a nice day!





Pattern: THEM [e_1] @ OBJ [e_2] [e_3] ($x_2 = @$) Sore wa nante osoroshii koto dana ! X₂ = osoroshii [fear]

-Questionnaire for sentences with each new emotive expression candidate:

> "Do you agree that this sentence expresses [emotion type]?"

III. IMPROVING WEB MINING

1. FROM BROWSER WEB MINING TO A STAND ALONE SYSTEM: -Gather large number of pages from the Web to a hard drive and index with HyperEstraier [10].



corpora.

-We also plan to extract conversational strategies for further implementation of the system into a conversational agent.