LVCSR-BASED LANGUAGE IDENTIFICATION

T.Schultz, I.Rogina, and A. Waibel

Interactive Systems Laboratories University of Karlsruhe (Germany), Carregie Mellon University (USA) {tanja, rogina, waibed}@ira.uka.de

ABSTRACT

anguage identification is an important probilingual speech recognition and unding a language identificastudied the infludge sources on

3. OVERALL SYSTEMSTRUCTURE

There are several kinds of architectures for HD systems. An *integrated* architecture consists of a single global recognition system which is language-indepenas described in [3]. One drawback is the increasty when adding languages to be identified

tures, for each language to be systemis trained, langall system with

5.1. First Exper i ment s

In earlier experiments we used German data recorded at Karlsruhe and English data recorded at CMU (to get native speakers). The CMU data are collected in affice environment while the data collected at y clean. We found that testing untions overestimate the languificantly [9]. To sults, we

5.3. Final System

Finally we built two 4-language systems to identify German, English, Spanish and Japanese. For these final systems we used the new recognizer [7] which e improved in the maantim by e.g. incorporating the decoder and better phonem modgnizer. Therefore we called HBUM respecor-