Name   : Mr. Praditpong Trakulsukvises

Thesis Title   : Speaker-Independent Isolated Digits

                   Speech Recognition System Using

                   Clustering Techniques* .

Major Field   :. Electrical Engineering

Thesis Advisors : Assoc. Prof. Manoon Poungpool,

                   Mr. Itthithep Amatyakul

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Abstract

The studies of small size isolated digits speech recognition system by using clustering technique for determining multi-prototypes of each word have been observed.

According to the numbers of sampled speeches are too small, (only 19 persons for each word). Therefore, the system can not achieve the good scores of recognition. However, more than 90% of successful recognition can be achieved by the system if it is intened to be used with the group of people whose sampled speeches are used in training period of the system.