

CLE SEMINAR SERIES-III

Topic: HMM based speech synthesis using HTS Toolkit

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Abstract:

The purpose of Text to Speech Synthesizer is to convert any arbitrarily given text into audible waveform. The currently focused applications are the location based services and the screen reader for visually impaired people (NVDA). At present the popular speech synthesis techniques are the corpus based ones, which includes unit selection and HMM based speech synthesizers. The HMM based synthesizers have slight advantage over the unit selection method in terms of smoothness and footprint.

The HMM based speech synthesizer is developed on read speech data (30-minutes) taken from URDU Qaida of grade 2 and 4 respectively. The challenges encountered during the development are discussed, that includes the generation of the full-context style labels plus the question-set to generate the tree for classification and clustering [1].

References

- [1] K. Shinoda and T. Watanabe, "Acoustic Modeling Based on the MDL Principle for speech recognition," in *proc. of EuroSpeech-97*, Rhodes, Greece, September, 1997.