



GENERATION OF SYNTHETIC SPEECH FROM TURKISH TEXT (MonAmOR8)

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★ Abstract :

In this paper, we design and develop an intelligible and natural sounding corpus-based concatenative speech synthesis system for Turkish. The implemented system contains a front-end comprised of text analysis, phonetic analysis, and optional use of transplanted prosody. The unit selection algorithm is based on commonly used Viterbi decoding algorithm. The back-end is the speech waveform generation based on the harmonic coding of speech and overlap-and-add mechanism. In this study, a Turkish phoneme set has been designed and a pronunciation lexicon for root words has been constructed. For assessing the intelligibility of the synthesized speech, a DRT word list for Turkish has been compiled. The developed system obtained 4.2 Mean Opinion Score (MOS) in the listening tests.