

Speech Segmentation Using Speech Dilation

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Abstract: In this paper, an unsupervised approach for automatic speech segmentation have been proposed. We have not used any linguistic features like zero crossing count (ZCC), short time energy (STE), peaks, minimum group delay function or wavelets etc. Speech signal carries voiced, unvoiced and silence part. We have just used silence part of speech signal and by omitting it we extracted words. These words are stored in .wav file format. 112 wave files are separated from a single .wav file and stored separately. Out of 112 words, 100 words are clearly segmented. Hence we can say that approximately 90% speech sample files are segmented properly. Hence we can say that results are satisfactory. Technical beauty of this paper is dilation operation which is applied on image is tried for audio speech files and found better for speech segmentation.